



SEALTEK

- Mechanical Seals
- Seal Support Systems
- Braided Packing
- Injectable Packing
- Flat Gaskets
- Maintenance Products

PRODUCT CATALOG

SEALING BEYOND EXPECTATIONS

Sealing Devices and Industrial Maintenance Solutions

PRODUCT CATALOG

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MATERIALS IDENTIFICATION AND CODING

With the emergence of new technologies and materials the need to unify and rationalize the identification of seals has become increasingly important. The [EN 12756 System](#), has now replaced the [Deutsche Industry Norm DIN 24960](#), and the French NFE 29-991, with the aim of defining the critical dimensions of the pump housing, the seal itself and the materials of construction.

SINGLE SEALS	Material Referring Letters
Rotary Ring	1
Stationary Ring	2
Secondary Seals	3
Spring(s)	4
Construction Material	5

DOUBLE SEALS	Product Side	Atmospheric Side
Rotary Ring	1	1
Stationary Ring	2	2
Secondary Seals	3	3
Spring(s)	4	
Construction Material	5	

STANDARD MATERIALS

CODE	1, 2 FACE MATERIALS	CODE	3 SECONDARY SEALS MATERIALS	CODE	4, 5 SPRING AND CONSTRUCTIONS MATERIALS
A	Antimony filled carbon	E	Ethylene propylene rubber	G	1.4571 CrNiMo-Steel (316Ti)
B1	Resin coated carbon	P	NBR	G1	1.4462 CrNiMo-Steel (Duplex)
D1	8µ diamon coated SIC	V	Fluorocarbon rubber	G4	1.4501 CrNiMoCu steel, Superduplex
D2	16µ diamon coated SIC	X	TFE/P - FEP	G7	1.4410 CrNiMoN steel, Superduplex
G	CrNiMo-Steel	K	FFKM	M	Hastelloy C-4
U2	TC - tungsten carbide nickel binder	M1	FKM, double PTFE wrapped	M4	Monel alloy K500
U22	TC tungsten carbide nickel binder shrunk fitted	M2	EPDM, double PTFE wrapped	M5	Hastelloy C276
Q1	SIC sintered silicon carbide	M5	FKM, FEP wrapped	M6	Inconel 718
Q2	SIC reaction bonded silicon carbide	M7	FKM, double PTFE wrapped/PTFE, solid	F	1.4301 (304)
Q3	Graphite-loaded SIC	T	PTFE	T2	Pure Titanium
Q12	SIC sintered silicon carbide shrunk fitted	G	Pure graphite	T3	Inconel 625
Q22	SIC silicon carbide RB shrunk fitted			T5	Incoloy 800
V	Aluminum dioxide (ceramic) > 99%			T6	AM 350 special alloy
V2	Aluminum dioxide (ceramic) > 96%				
Y1	PTFE, fiberglass reinforced				



"SLEEVELESS" MECHANICAL SEAL LINE

Sealtek® is the first and only mechanical seal manufacturer to offer a complete line of conical seals featuring superior performances and lower costs than cartridge seals of previous generations which are still the standard for all other brands.

Sealtek® patented design features greater compensation for misalignment, self-cleaning and self-cooling properties. This revolutionary design, which allows for easy customization for various stuffing boxes, has proven over the course of years to handle the majority of industrial applications: from the basic single seal designed in 2006, the line has evolved to include a double, split, heavy duty, high pressure and non-metallic variant.

The original design has since then been changed to also allow the use of quench even in the simplest configuration.



API 682 MECHANICAL SEALS

By using only the highest quality materials and providing even more controls and certificates than required by the API 682 regulations, **Sealtek®** is able to offer a [complete line of mechanical seals for Oil & Gas upstream and downstream applications](#), with considerably lower delivery times than the market average.

To top up its API 682 offering, **Sealtek®** also designs and provides all the necessary auxiliary systems, such as barrier fluid vessels, valves, heat exchangers, transmitters and indicators, by choosing the components from the best suppliers, some of whom are included within the Sealtek® industrial group.

MECHANICAL SEALS FOR A WIDE RANGE OF APPLICATIONS

Sealtek® offers one of the World's largest selections of mechanical seals, covering almost the totality of the market. Among the **Sealtek®** range: OEM and component seals of the most common design, cartridge seals according to EN, ISO, JIS or ANSI standards, metal bellows seals, heavy slurry seals, dry running gas seals, mixers seals. What makes **Sealtek®** unique in the market is our ability to [craft custom-designed solutions, even for very small quantities](#): The end user's requirement of today becomes our product of tomorrow.



MODULAR SYSTEM

Modular System is **Sealtek's** signature line of cartridge-mounted mechanical seals. By using the same parts to assemble several different models, **Sealtek®** is able to offer any seal among the standard sizes and materials with immediate, off-the-shelf delivery. At the same time, the modular components enable the end user to lower the stock of spare parts, as the same repair kit can be applied to a large number of seal models of the same size.

PACKING AND GASKETS

Sealtek® manufactures a very wide array of flat gaskets made of hi-tech materials, from graphite to aramid fibers and bi-axial PTFE, and stuffing box packings, either braided or injectable. The braided packing line features over 40 types to meet the widest possible variety of applications with the usual industry leading Sealtek quality standards.



PIPELINES ONLINE REPAIR SYSTEMS

Leakage from pipelines has always been a major issue for all industries, from Water/Wastewater to Chemical and Oil & Gas. Sealtek® has developed a complete line of products to perform quick, safe and long-lasting repairs on pipeline leakages without the need of shutting the lines. The Seal-Tex and Self-Seal tapes, in conjunction with the Leak-3 and GF-HD pastes, have successfully allowed savings beyond imagination to several important factories, power plants and refineries, and are now a part of the must-have equipment for emergency leakage containment. Seal-Tex is certified according to ASME PCC-2/2008.

INDUSTRIAL MAINTENANCE PRODUCTS

All Sealtek® coatings, lubricants, cleaners and metal-ceramic compounds have one feature in common: they are manufactured without compromise on quality. We believe that an effective industrial maintenance program cannot be achieved without effective and efficient modern products which meet or exceed the environmental regulations that are being enforced all over the World. All Sealtek® Industrial Maintenance Products are manufactured in Italy under the most rigid safety standards, and are the perfect tools for value creation in plant maintenance.



ZERO LEAKAGE SYSTEM

Injectable packing, known as Zero Leakage System, allow to refill the stuffing box without dismantling the valve or pump, and are the World's only products of this kind to be manufactured with 90% virgin fibers only. Other similar products are made with the leftovers of used fibers. The saving in terms of leakage, man-hours and machine downtime makes ZLS the ideal sealing device for continuous operations.

SLEEVELESS CARTRIDGE SEALS

STYLE 600SL



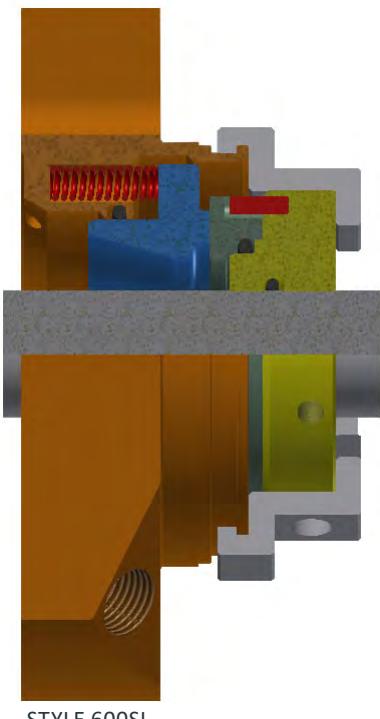
This revolutionary seal design is the result of the most intensive engineering design study imaginable. **The first real innovation in the sealing market for many years.**

Until now all mechanical cartridge seals have been designed with an integral shaft sleeve. This revolutionary sleeveless design **allows for installation on pumps where it was previously considered impossible to install a cartridge mounted seal.**

The sleeveless design also allows for greater radial run-out of the shaft. The 600SL is first cartridge mechanical seal to incorporate a **conical stuffing box design**, allowing it to greatly improve seal life in **slurry and dirty fluid applications**. With no seal parts inside the stuffing box, slurry contamination cannot clog the seal greatly increasing seal life.

This new seal also incorporates a gland plate with flushing connection and large, solid seal faces manufactured from sintered materials mounted on flexible elastomers, which also act as shock absorbers. This seal offers **great reliability under the harshest of working conditions.**

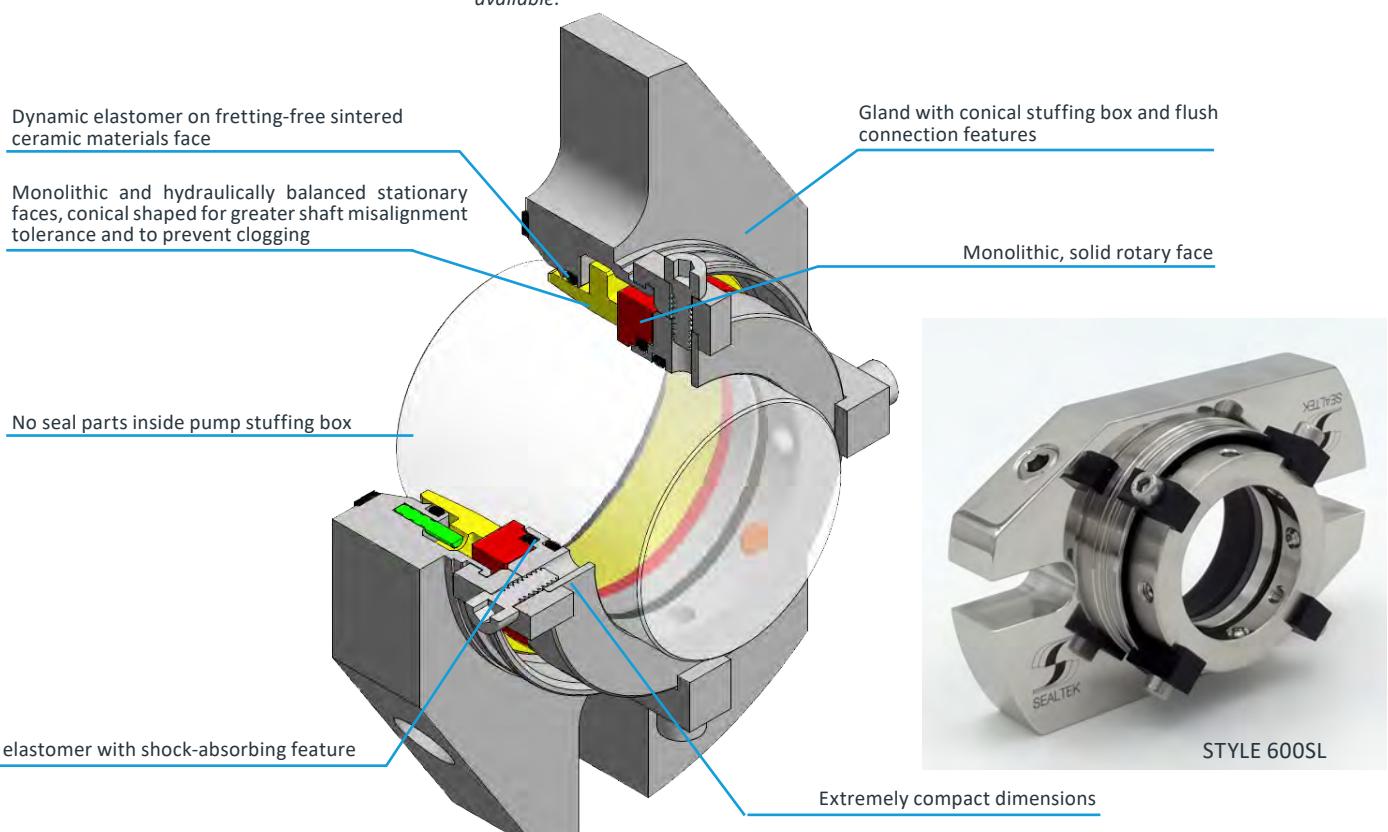
The 600SL offers the user real benefits in terms cost savings of new seals, spare parts kits and most importantly **MTBF!** This is the only real innovation in the sealing market for many years!



STYLE 600SL

Materials		Technical Data	
Metal parts	Aisi 316 L DIN 1.4571*	Pressure	Vacuum 700 mm Hg ÷ 3,5 MPa**
Elastomers	FKM - EPDM - FFKM - FEPM - TTV	Temperature	Up to elastomer limit. FKM: +205°C E.P.R.: +150°C FFKM: +315°C
Sliding faces	A - B - Q1 - Q2 - U2	Speed	25 m/sec Depending on materials of sliding faces
Springs	Hastelloy* C - 276 DIN 2.4819	Dimensions	25-100mm ***

*Other materials available upon request **Upon shaft diameter and speed ***Other sizes available.



STYLE 606 DFS

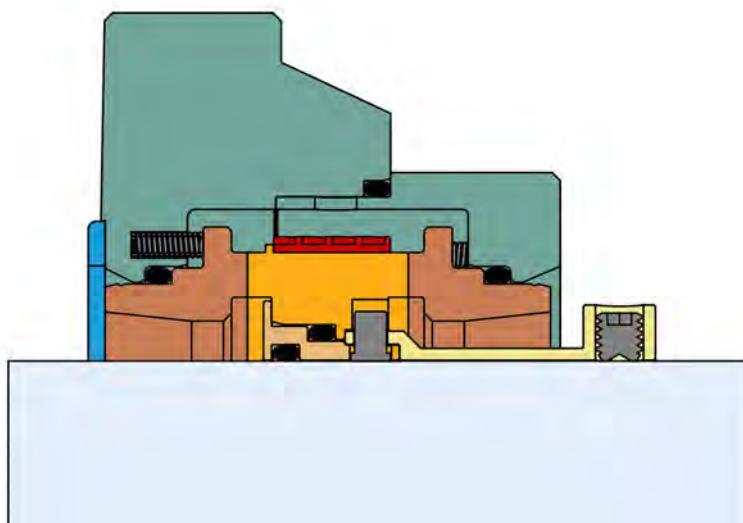
New conception double cartridge seal which makes the best use of the recent technology developed for the Style 600SL seals and widens its applications and performances.

The Style 606 DFS is equipped with its [own conical extension of the stuffing box](#) in order to provide the longest possible MTBF available in the toughest applications.

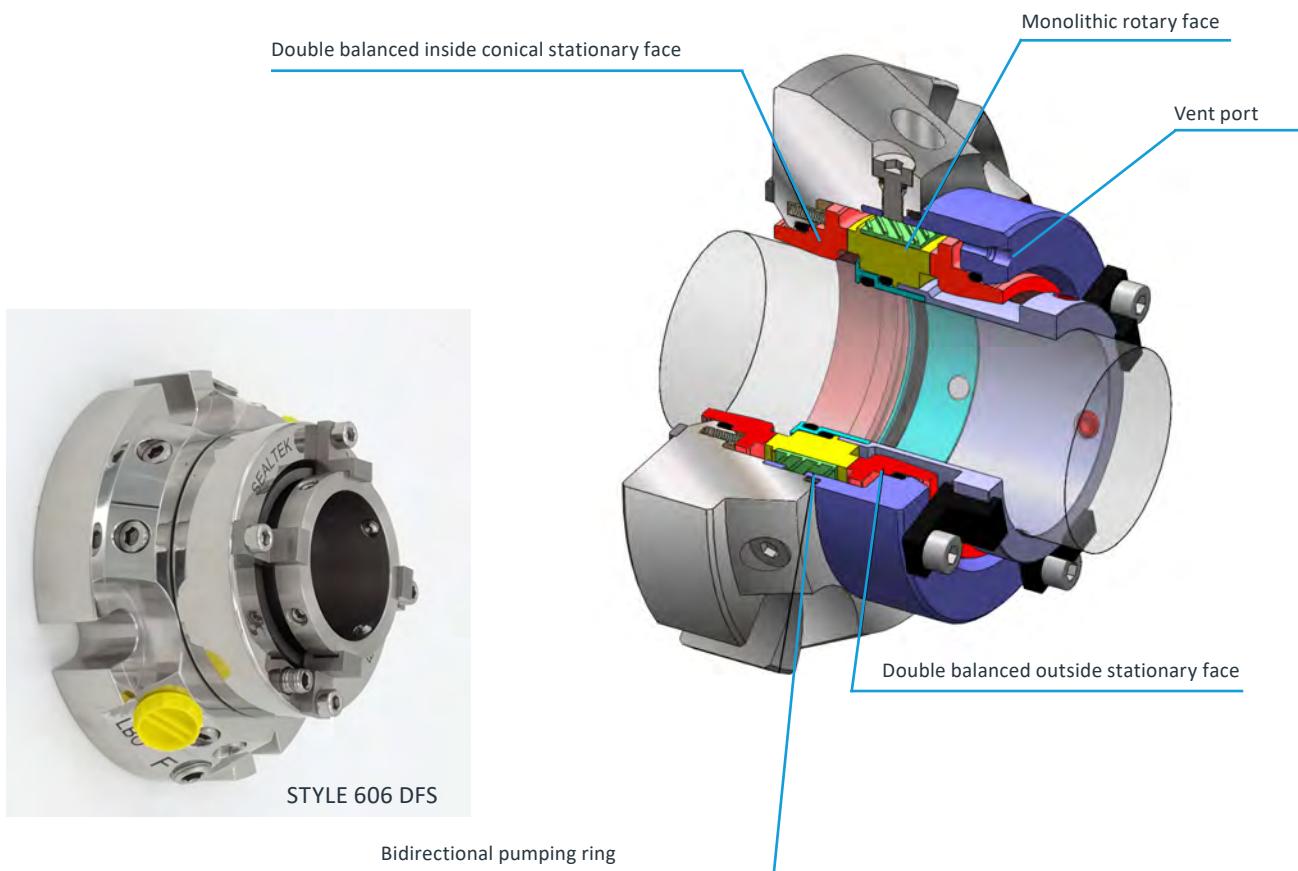
The seal faces are designed by means of the most advanced FEA technology, with double balance.

Style 606 DFS features [multiple springs out of the pumped fluid](#), is extremely compact but able to [withstand radial misalignments up to 4°](#).

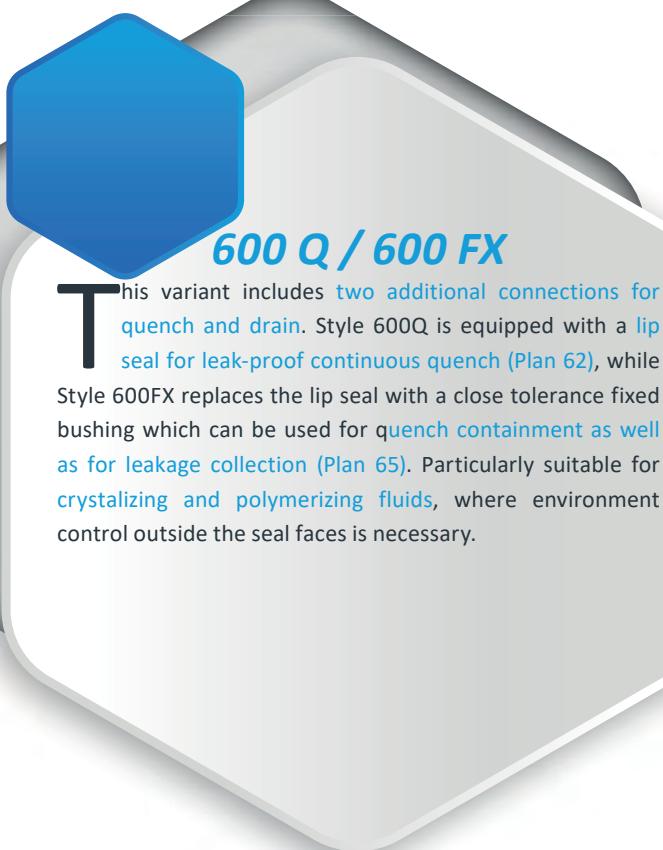
Equipped with standard pumping ring, the Style 606 seal [can be installed in almost every application](#), even heavy duty pumps, reactors, and mixers.



STYLE 606 DFS

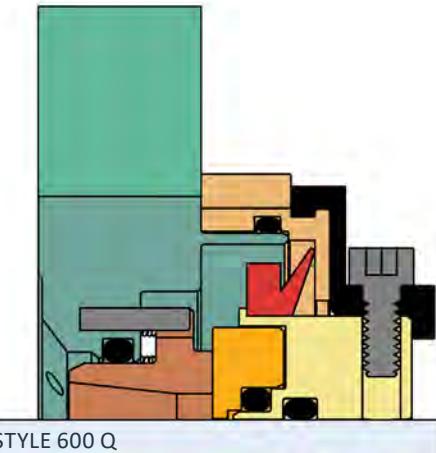


SLEEVELESS CARTRIDGE SEALS



600 Q / 600 FX

This variant includes two additional connections for quench and drain. Style 600Q is equipped with a lip seal for leak-proof continuous quench (Plan 62), while Style 600FX replaces the lip seal with a close tolerance fixed bushing which can be used for quench containment as well as for leakage collection (Plan 65). Particularly suitable for crystallizing and polymerizing fluids, where environment control outside the seal faces is necessary.



STYLE 600 Q

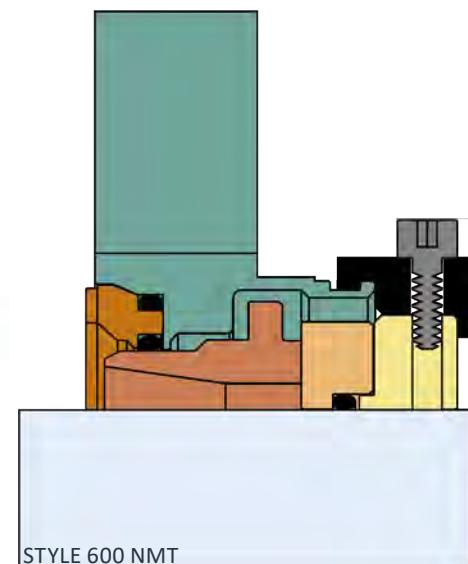


600 NMT

For all applications involving aggressive chemicals, Style 600NMT is a more efficient and more effective alternative to exotic alloys such as Super Duplex or Hastelloy C276, which are drastically outperformed by this revolutionary design where the wetted parts are in sintered silicon carbide to provide total chemical resistance and enhanced abrasion resistance for just a fraction of the cost.

The NMT technology can be applied to our other sleeveless mechanical seals.

Style 606NMT is the double seal specifically designed for dangerous aggressive chemicals, and Style 600HD-NMT is the ultimate solution for heavy abrasive slurries typically found in the mining and paper industry.



STYLE 600 NMT



STYLE 600 NMT



STYLE 600 HD

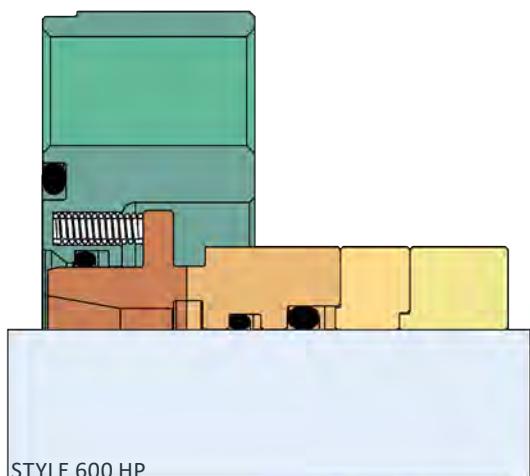


STYLE 600 HD

600 HD

Style 600HD is a more robust design of the original Sleeveless seal, specifically made for **heavy duty** applications requiring a sturdy seal to withstand heavy mechanical shocks.

Large driving pins and anti-rotation pins ensure a greater torque resistance, and the multiple springs are as well oversized. With the addition of the revolutionary outside quench ring, the seal can be quickly **upgraded for applications involving crystallizing or polymerizing fluids**.



STYLE 600 HP



STYLE 600 HP

600 HP

Variant for high pressure applications, able to withstand **working environments of up to 100 bar**. The special shape of sliding faces designed through the most advanced F.E.M. systems, allows safe working at very high pressure without distortion and with extreme PV factor.

Thanks to its specific design and use of advanced materials to reduce seal faces load and friction, it can be successfully installed in **boiler feed pumps, booster pumps, extruders and hydrocracking units**.

SLEEVELESS CARTRIDGE SEALS



STYLE 688 SPLIT SEAL

Style 688 is the latest result of Sealtek research and engineering efforts, and **the most advanced split seal** in the World.

While still keeping all the features and benefits of the [acclaimed Style 600SL](#) cartridge-mounted mechanical seal, which has introduced to the market the concept of [conical extension of the stuffing box](#), Style 688 requires no more effort than [joining the two parts together](#) and tightening the gland bolts. This dramatically cuts the installation time from hours to minutes, reduces the machine downtime and lowers the risk of installation-related seal malfunctions.

Style 688 can be applied on a wide range of applications and is the ideal seal for pumps which are difficult to disassemble or are located in hard to reach positions.

The [Style 688H Semi-Split version](#) includes a one-piece gland which, after the initial installation, allows the use of split replaceable parts, thus removing the need to dismantle the pump for seal maintenance, while granting [lower costs and higher reliability](#).

Technical Data

Pressure	Max 2.5 MPa* (362 PSI)
Temperature	Max 120°C (248°F)
Speed	Max 20 m/s (44.74 mph)

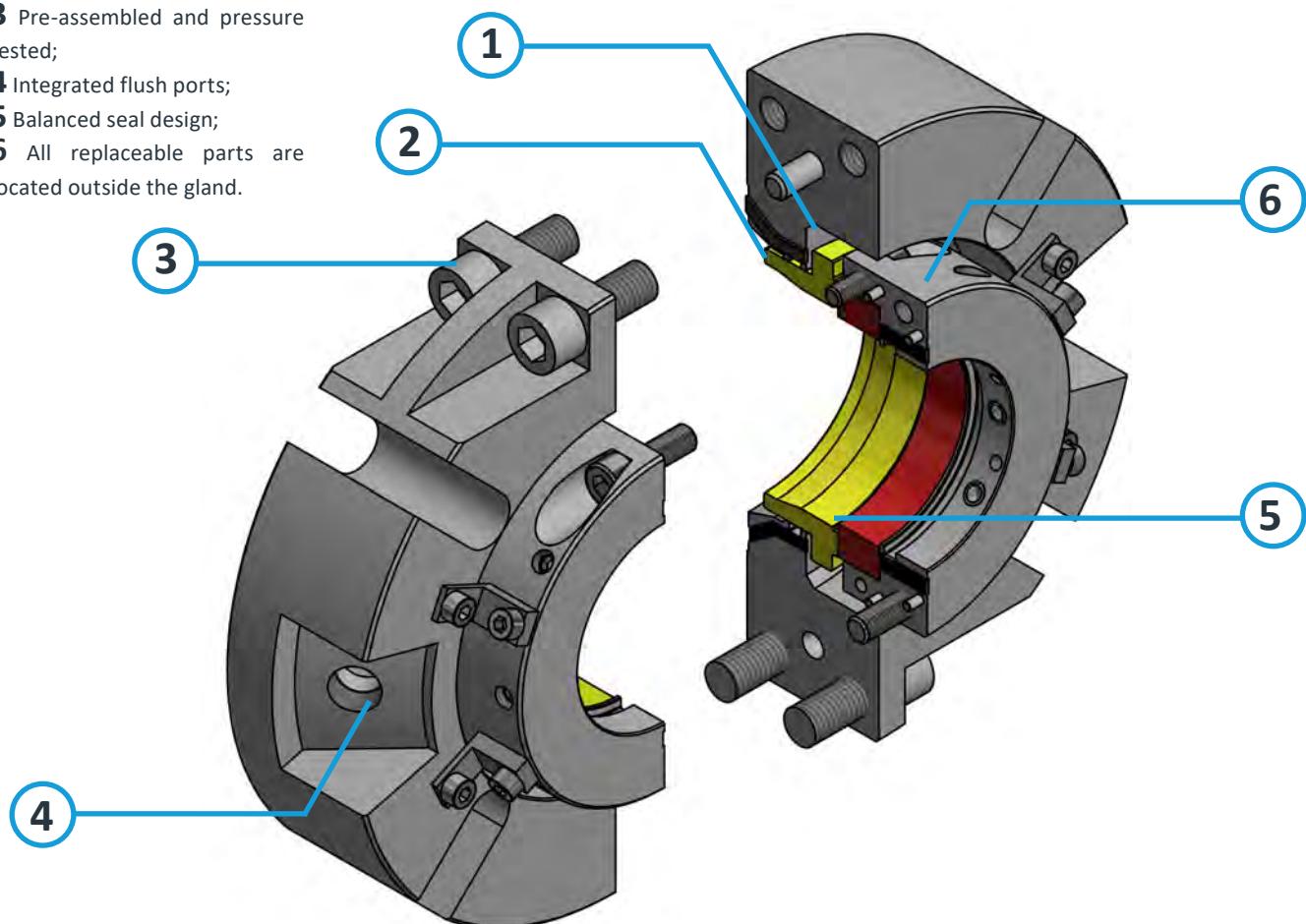
*Actual pressure limit may vary according to shaft size, process fluid and material of seal faces.



STYLE 688 SPLIT

LEGENDA:

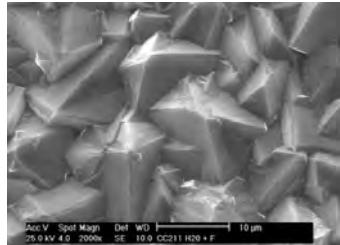
- 1** Springs out of the fluid;
- 2** Conical stationary face;
- 3** Pre-assembled and pressure tested;
- 4** Integrated flush ports;
- 5** Balanced seal design;
- 6** All replaceable parts are located outside the gland.



DIAMOND COATING TECHNOLOGY

Diamond-coated mechanical seal faces greatly outperform other materials in terms of friction, heat generation and dissipation, power absorption and **tolerance to dry-running**.

Although not made for continuous dry running in most applications, diamond faces completely eliminate the threat of seal damage for occasional short-term lack of seal lubrication. Their tribological properties guarantee remarkable **power savings**, with big economic and environmental improvements on all industrial operations. Such savings usually reach over 50% of the total mechanical seal energy consumption.



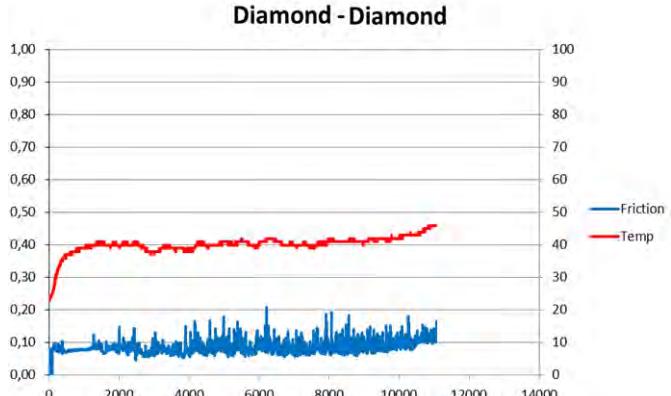
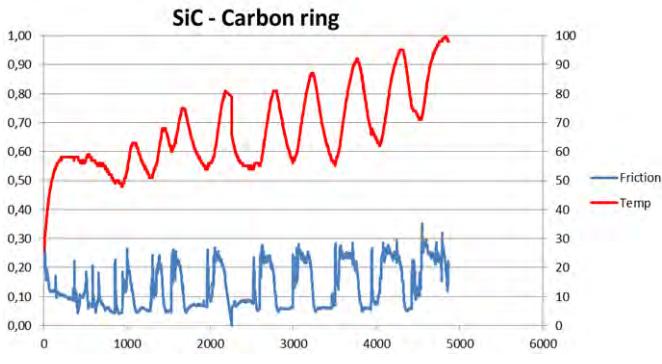
Polycrystalline diamond (electron microscope).

The diamond coating technology for mechanical seals is rapidly gaining confidence among users worldwide, not all coatings are alike. Sealtek is proud to provide a **complete technical support** when selecting the most suitable coating for each application, in order to always offer the most cost-effective solution. A few examples of the several available types of coatings include:

- **STANDARD COATING:** A 8µm-thick layer of CVD diamond provides the **optimal solution for costs optimization**. Standard diamond can be paired with other materials to provide extremely low friction coefficients at very reasonable prices.
- **HEAVY DUTY COATING:** 16µm or 24µm layer of polycrystalline diamond, extremely suitable for **low viscosity slurries** that would usually provide an insufficient lubrication to the mechanical seal without large quantities of expensive flushing. Excellent for the paper and mining sector, or any application involving abrasive and dense slurries.
- **SOFT COATING:** Smoother surface, providing a superior seal face flatness. This coating greatly reduces the seal's friction coefficient when **operating with high viscosity fluids**, such as hot water or flashing hydrocarbons, which would cause unacceptable leakage with other types of diamond.
- **AMORPHOUS COATING:** While other coatings always require a silicon carbide face as base, this technology can be applied on tungsten carbide, when its mechanical resistance is needed for **crystallizing or polymerizing fluids** applications.



Seal face coated with CVD diamond, as it appears after 10 hours of dry running at 1500 rpm.



API SEALS Type A Arrangement 1

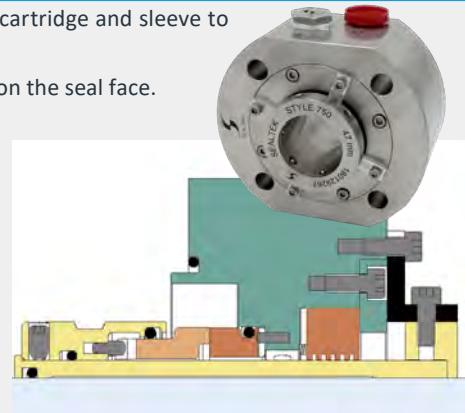


STYLE 750 API TYPE A, ARRANGEMENT 1

- Style 750 API features the reliable and time-tested Style 550 design, with cartridge and sleeve to match API 682 standard.
- Multiple springs out of the fluid, and fretting-free dynamic O-ring working on the seal face.

Technical data

Pressure	40 bar
Temperature	-40°C ÷ +305°C
Speed	18 m/sec
Special features	Fixed or floating throttle bushing

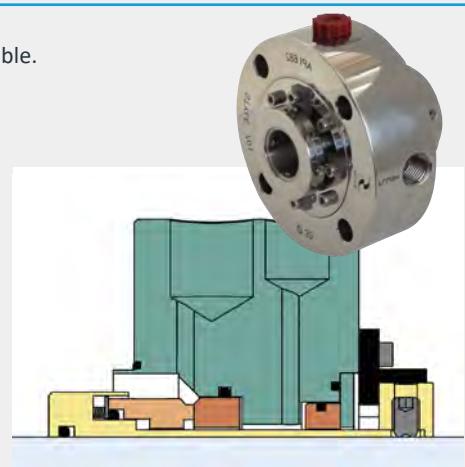


STYLE 701 API TYPE A, ARRANGEMENT 1

- Rotary single API682 seal for clean fluids applications.
- Medium (Style 702) and high (Style 703) pressure design rotary faces available.
- Available with floating or fixed throttle bushing.

Technical data

Pressure	Up to 21 bar (702: 42 bar; 703: 70 bar)
Temperature	-40°C ÷ +305°C
Speed	25 m/sec
Special features	Pumping ring for Plan 23 applications available (701P)

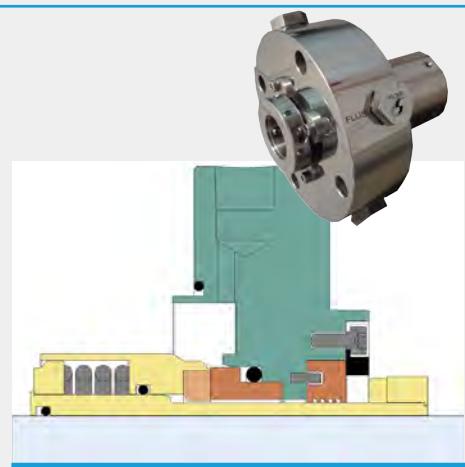


STYLE 730 API TYPE A, ARRANGEMENT 1

- Single API682 seal, with single spring independent from rotation.
- Available with floating or fixed throttle bushing.

Technical data

Pressure	Up to 70 bar
Temperature	-40°C ÷ +305°C
Speed	23 m/s
Special features	Pumping ring for Plan 23 applications available (730P)

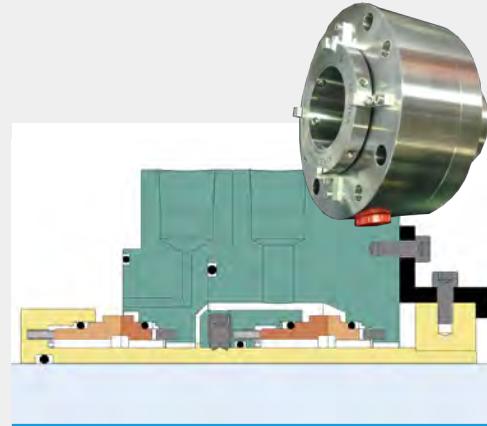


STYLE 755 API TYPE A, ARRANGEMENT 2 AND 3

- Double rotary API682 seal
- Multiple springs out of the fluid
- Fretting-free dynamic O-ring.

Technical data

Pressure	40 bar
Temperature	-40°C ÷ +305°C
Speed	18 m/s
Special features	Equipped with internal pumping ring

**STYLE 711 API** TYPE A, ARRANGEMENT 2 AND 3

- Double rotary API682 seal for clean fluids applications.
- Medium (Style 712) and high (Style 713) pressure design rotary faces available.
- Internal pumping ring for barrier fluid.

Technical data

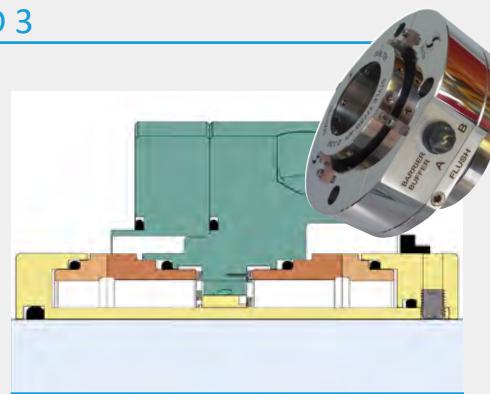
Pressure	Up to 305 PSI (712: 42 bar; 713: 70 bar)
Temperature	-40°C ÷ +305°C
Speed	25 m/s
Special features	Pumping ring for Plan 23 applications available (711P)

**STYLE 777 API** TYPE A, ARRANGEMENT 2 AND 3

- Double stationary API682 seal with multiple springs out of the fluid.
- Symmetric design maximizes the MTBF.

Technical data

Pressure	Vacuum 700 mm Hg ÷ 25 Kg/cm*
Temperature	-40°C ÷ +305°C
Speed	25 m/s
Special features	Equipped with internal pumping ring



API SEALS Type B and Type C single and double seals also available –
for further information, please refer to the Sealtek API682 catalogue.

Modular System cartridge seals

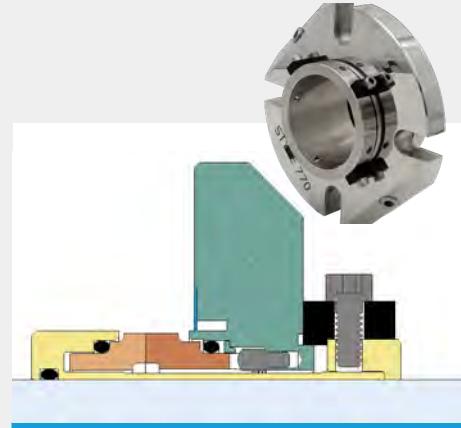


STYLE 770 SINGLE CARTRIDGE SEAL

- Balanced
- Stationary
- Standard gland
- Same replaceable parts as other Modular System seals

Technical data

Pressure	0,9 ÷ 25 bar
Temperature	-40°C ÷ +305°C
Speed	25 m/sec

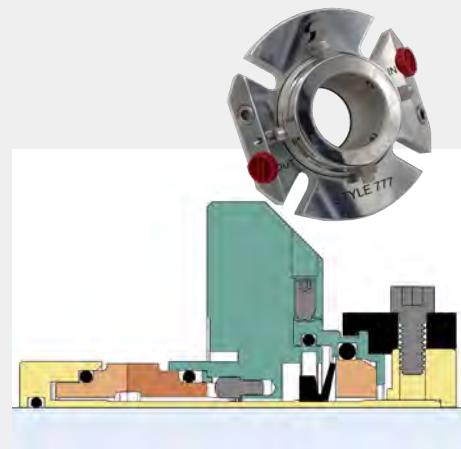


STYLE 777SO SINGLE CARTRIDGE SEAL FOR QUENCH APPLICATIONS

- Balanced
- Stationary
- Standard gland
- Same replaceable parts as other Modular System seals
- Lip seal for leak-proof continuous quench

Technical data

Pressure	0,9 ÷ 25 bar
Temperature	-40°C ÷ +305°C
Speed	25 m/sec

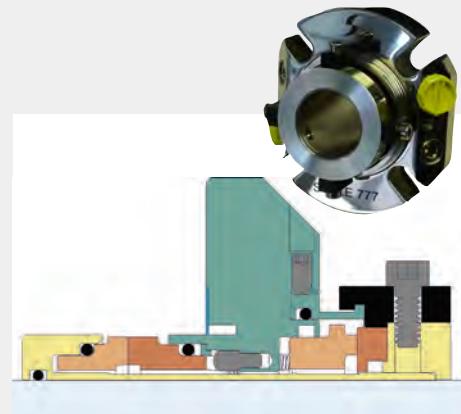


STYLE 777SW DOUBLE CARTRIDGE SEAL

- Balanced
- Stationary
- Standard gland
- Same replaceable parts as other Modular System seals

Technical data

Pressure	0,9 ÷ 25 bar
Temperature	-40°C ÷ +305°C
Speed	25 m/sec

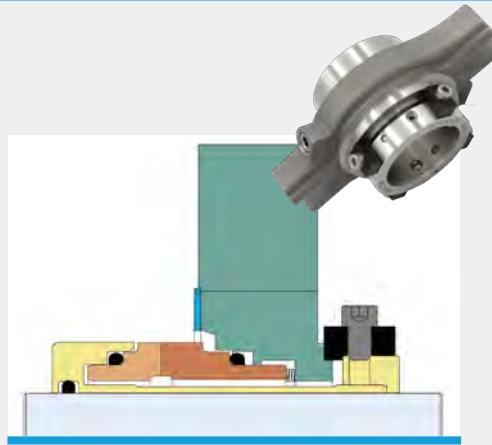


STYLE 670 SINGLE CARTRIDGE SEAL

- Balanced
- Stationary
- Reduced gland
- Same replaceable parts as other Modular System seals

Technical data

Pressure	0,9 ÷ 25 bar
Temperature	-40°C ÷ +305°C
Speed	25 m/sec

**STYLE 677RG** DOUBLE CARTRIDGE SEAL

- Balanced
- Stationary
- Reduced gland
- Same replaceable parts as other Modular System seals

Technical data

Pressure	0,9 ÷ 25 bar
Temperature	-40°C ÷ +305°C
Speed	25 m/sec

**STYLE 677SO** SINGLE CARTRIDGE SEAL WITH QUENCH

- Balanced
- Stationary
- Reduced gland
- Same replaceable parts as other Modular System seals
- Lip seal for leak-proof continuous quench

Technical data

Pressure	0,9 ÷ 25 bar
Temperature	-40°C ÷ +305°C
Speed	25 m/sec



Metal bellows

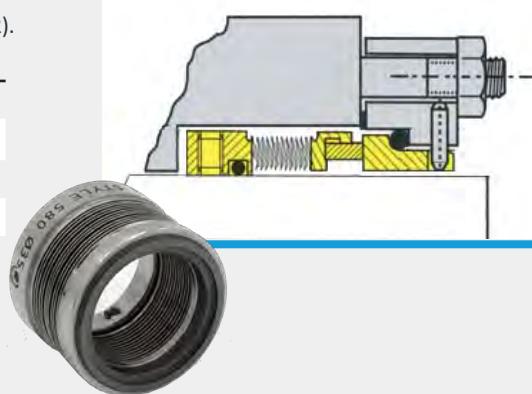


STYLE 580 METAL BELLows ROTARY COMPONENT SEAL

- Metal bellows in AM350.
- Available with Hastelloy C276 bellows and retainer (Style 581)
- Available with AISI 316 retainer and Hastelloy C bellows (Style 582).

Technical data

Pressure	40 bar
Temperature	-40°C ÷ +305°C
Speed	15 m/sec
Metal bellows material	T6

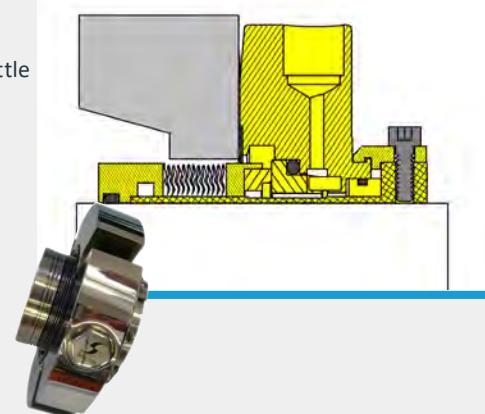


STYLE 780 SINGLE CARTRIDGE MOUNTED ROTARY METAL BELLows SEAL

- Metal bellows available in wide range of materials.
- Available with stationary bellows (Style 784),
- Available with lip seal for leak-proof quench (Style 780Q), or with throttle bushing (Style 780FB).

Technical data

Pressure	25 bar
Temperature	-40°C ÷ +305°C
Speed	20 m/sec
Metal bellows material	G - T6 - T1 - M5

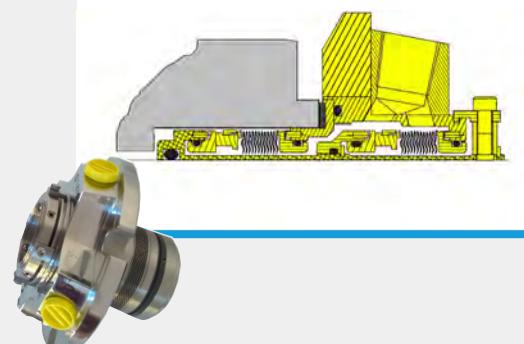


STYLE 788 DOUBLE CARTRIDGE MOUNTED ROTARY METAL BELLows SEAL

- Metal bellows available in wide range of materials.
- Available with stationary bellows (Style 787).

Technical data

Pressure	21 bar
Temperature	-40°C ÷ +305°C
Speed	25 m/sec
Special features	G - T6 - T1 - M5

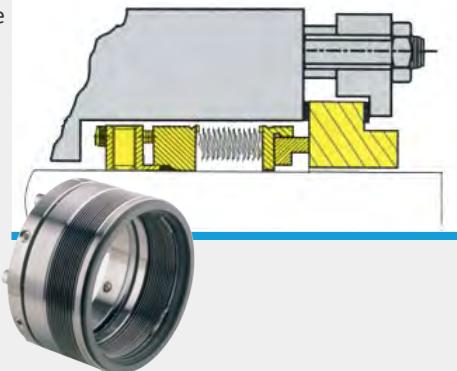


STYLE 590 METAL BELLOWS ROTARY COMPONENT SEAL

- For high temperature or cryogenic applications
- Secondary seals in graphite.
- Available with driving pin and double ply bellows for higher pressure resistance (Style 591)

Technical data

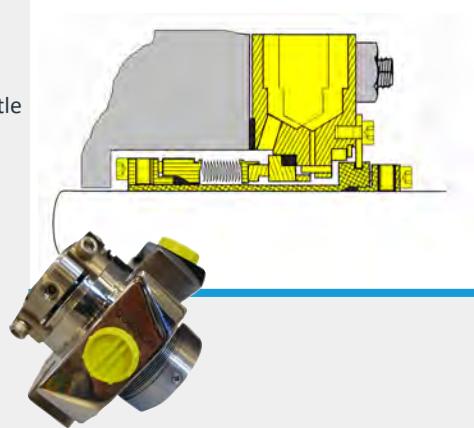
Pressure	590: 30 bar – 591: 50 bar
Temperature	380°C
Speed	590: 20 m/sec – 591: 15 m/sec
Metal bellows material	590: T6 – 591: T6 Double Ply

**STYLE 790** SINGLE CARTRIDGE MOUNTED ROTARY METAL BELLOWS SEAL

- Metal bellows available in wide range of materials.
- Secondary seals in graphite.
- Available with stationary bellows (Style 794)
- Available with lip seal for leak-proof quench (Style 790Q), or with throttle bushing (Style 790FB).

Technical data

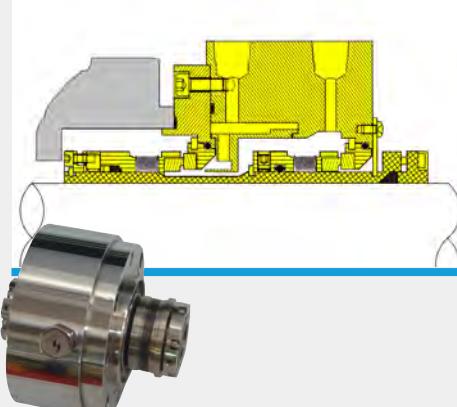
Pressure	21 bar (Double ply: 65 bar)
Temperature	-60°C ÷ +450°C
Speed	25 m/sec
Metal bellows material	G - T6 - T1 - M5

**STYLE 798** DOUBLE CARTRIDGE MOUNTED ROTARY METAL BELLOWS SEAL

- Metal bellows available in wide range of materials.
- Secondary seals in graphite.
- Available with stationary bellows (Style 797).

Technical data

Pressure	21 bar (Double ply: 65 bar)
Temperature	-60°C ÷ +450°C
Speed	25 m/sec
Metal bellows material	G - T6 - T1 - M5





MECHANICAL SEALS FOR MIXERS

Sealtek® manufactures a wide range of mechanical seals for mixers and agitators, making the best use of its technology to provide innovative solution for the most demanding applications: Sealtek® mixers seal stand out for their extremely high tolerance to shaft deflection and misalignment, and for the enhanced resistance to dry running given by the latest generation seal faces materials.

Mixer seals can be manufactured according to the DIN 28138 standard, and can be installed in steel vessels according to DIN 28136, mounting flanges according to DIN 28141, and are compatible with DIN 28154 agitators shaft ends.

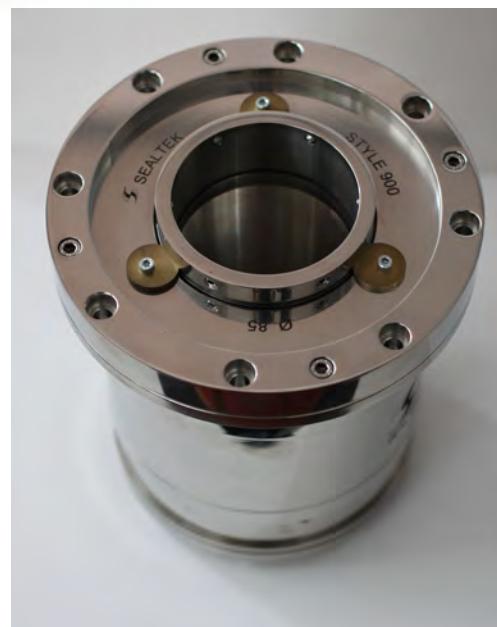
All the models can be supplied with the addition of radial bearings, and can be customized to fit specific applications.

CUSTOMIZED MECHANICAL SEALS

The first principle of the Sealtek® philosophy is: the customer must never be forced to modify his pump. Whenever an application cannot be properly sealed with standard solutions, the Sealtek® R&D department is ready to modify the existing designs to suit the customer's specific requirements, or eventually create new models from scratch, regardless of the quantity involved. Sealtek® representatives around the World are available to provide direct assistance and troubleshooting for sealing applications, gather the data required to design the customized proposal and assist the customer until a satisfactory sealing solution is found.



Sealtek® Style 606 3D for SCAM vacuum pumps.



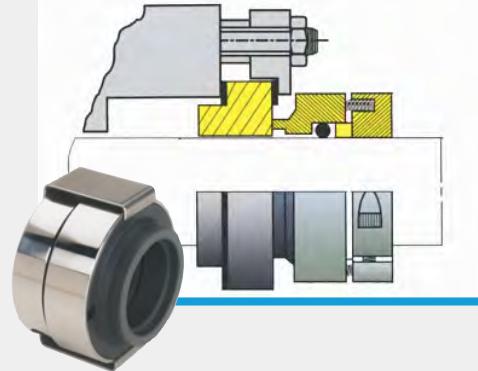
Sealtek® Style 900, for reactors.

STYLE 400 OUTSIDE ROTARY COMPONENT SEAL

- No metal parts in contact with fluid
- Clamping ring for installation on any shaft material
- Full solid seal faces

Technical data

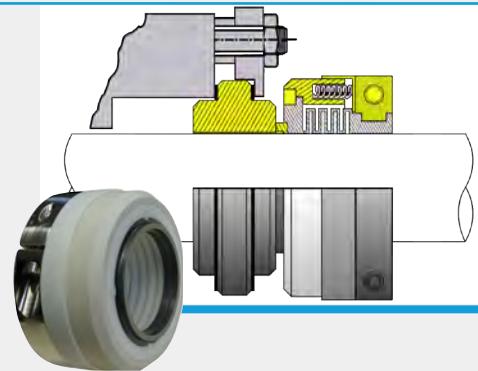
Pressure	12 bar
Temperature	-40°C ÷ +305°C
Speed	20 m/sec
Special features	Interchangeable seal face

**STYLE 410** OUTSIDE ROTARY COMPONENT SEAL WITH PTFE BELLows

- No metal parts in contact with fluid
- Clamping ring for installation on any shaft material
- No dynamic o-ring

Technical data

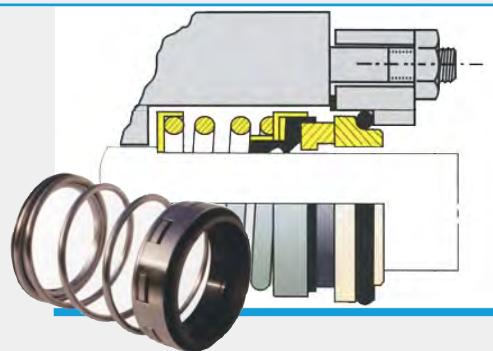
Pressure	12 bar
Temperature	-40°C ÷ +230°C
Speed	16 m/sec
Bellows material	T

**STYLE 520** ELASTOMERIC BELLows ROTARY COMPONENT SEAL

- No dynamic o-ring
- Enhanced misalignment tolerance
- Independent from shaft rotation

Technical data

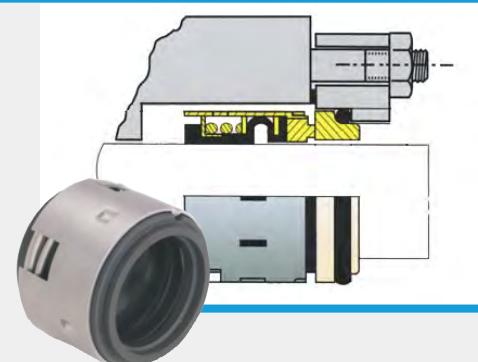
Pressure	12 bar
Temperature	-20°C ÷ +204°C
Speed	10 m/sec
Bellows material	P - E - V

**STYLE 522** ELASTOMERIC BELLows ROTARY COMPONENT SEAL

- No dynamic o-ring
- Length according to L1K
- Independent from shaft rotation
- Elastomeric bellows protected by a metal body

Technical data

Pressure	15 bar
Temperature	-20°C ÷ +204°C
Speed	13 m/sec
Bellows material	P - E - V



COMPONENT SEALS

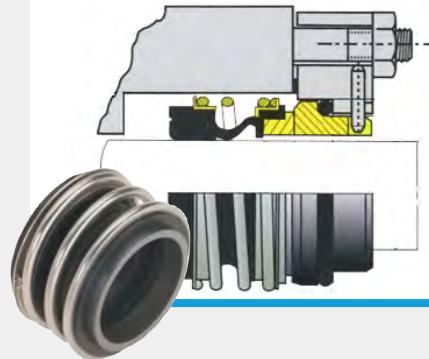


STYLE 523 ELASTOMERIC BELLOWS ROTARY COMPONENT SEAL

- No dynamic o-ring
- Available with length according to L1K (Style 524)
- Independent from shaft rotation

Technical data

Pressure	12 bar
Temperature	-20°C ÷ +204°C
Speed	10 m/sec
Bellows material	P - E - V

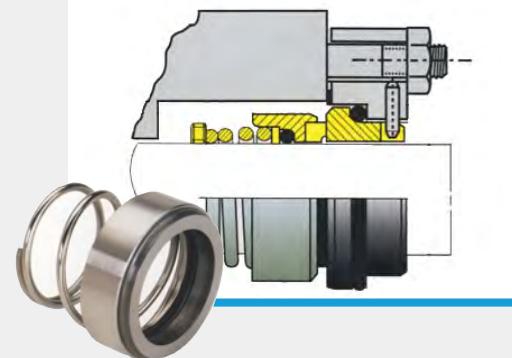


STYLE 530 SINGLE SPRING ROTARY COMPONENT SEAL

- Dependent on shaft rotation
- Large volume seal, inexpensive

Technical data

Pressure	10 bar
Temperature	-40°C ÷ +305°C
Speed	10 m/sec

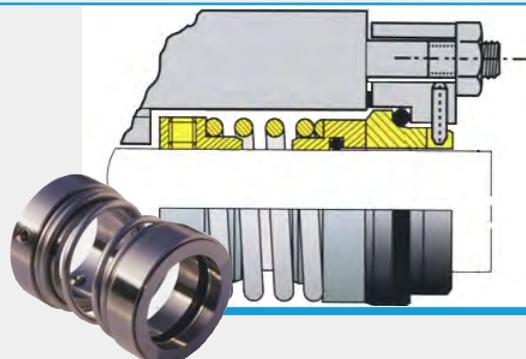


STYLE 531 HEAVY DUTY SINGLE SPRING ROTARY COMPONENT SEAL

- Independent from shaft rotation
- Very robust design with cylindrical oversized spring

Technical data

Pressure	16 bar
Temperature	-40°C ÷ +305°C
Speed	20 m/sec

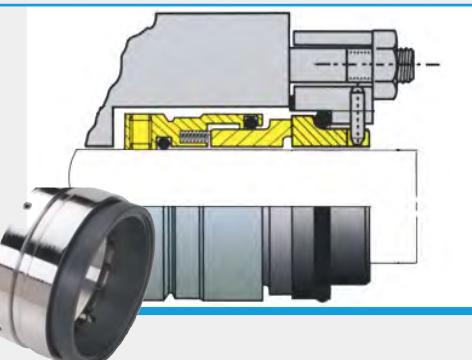


STYLE 550 MULTIPLE SPRINGS ROTARY BALANCED COMPONENT SEAL

- Balanced
- Fretting-free dynamic o-ring
- Springs out of the fluid
- Replaceable seal faces

Technical data

Pressure	40 bar
Temperature	-40°C ÷ +305°C
Speed	18 m/sec

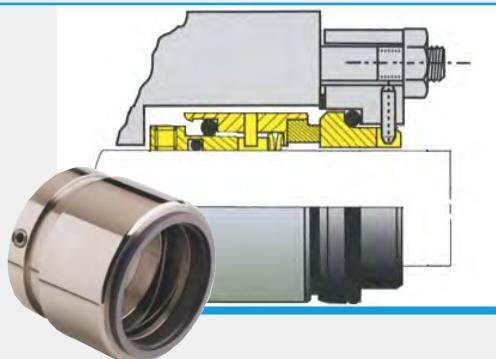


STYLE 551 WAVE SPRING ROTARY BALANCED COMPONENT SEAL

- Balanced
- Length according to L1K
- Spring out of the fluid

Technical data

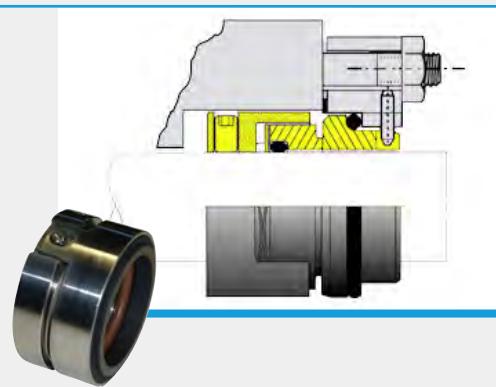
Pressure	25 bar
Temperature	-40°C ÷ +305°C
Speed	15 m/sec

**STYLE 557** WAVE SPRING ROTARY COMPONENT SEAL

- Available in balanced version (Style 557B)
- Length according to L1K
- Replaceable seal faces

Technical data

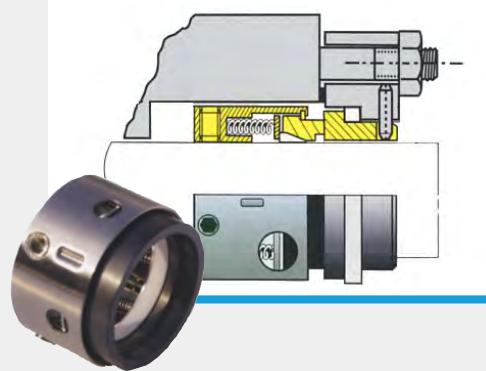
Pressure	16 bar
Temperature	-40°C ÷ +305°C
Speed	20 m/sec
Special features	Available in double seal configuration

**STYLE 558** MULTIPLE SPRINGS ROTARY COMPONENT SEAL

- Available in balanced version (Style 558B)
- Available with PTFE wedge instead of o-ring (Style 559 and Style 559B)
- Length according to L1K
- Replaceable seal faces

Technical data

Pressure	U = 15 bar ; B = 35 bar
Temperature	-40°C ÷ +305°C
Speed	20 m/sec
Special features	Available in double seal configuration

**OEM Mechanical Seals**

Sealtek® manufactures mechanical seals with specific design for installation on pumps whose seal chamber is not compliant with international standards, such as Flygt, Grundfos, Fristam, Hidrostal and several other brands. While the size is tailored to fit such specific pumps, the materials and the design are selected to offer a higher quality alternative to the original. Please contact your nearest Sealtek® distributor for more information about the complete Sealtek® OEM seals line.



SEAL SUPPORT SYSTEMS



API PLAN 53A

External reservoir providing pressurized barrier fluid to double mechanical seals.

Pressurization is made through outside nitrogen source.

Unpressurized version can be used for Plan 52.

SEALTEK® Api Plan 53A Includes

Style 300 or Style 300-API vessel

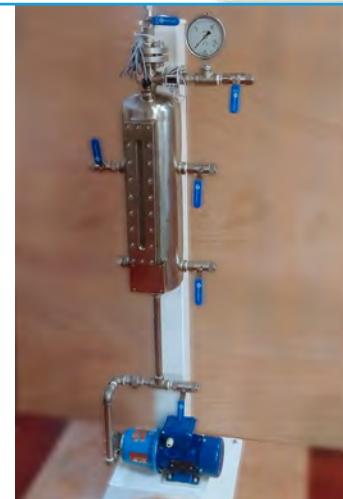
Optional cooling coil for vessel

Level switch / transmitter

Pressure switch / transmitter

Optional recirculation pump for thicker fluids

Base frame, pipes, valves and fittings



API PLAN 53B

External reservoir providing pressurized barrier fluid to double mechanical seals

for high pressure applications. Pressurization is made through a bladder filled by means of nitrogen charging kits.

SEALTEK® Api Plan 53B Includes

Bladder accumulator of standard API682 sizes

Pressure indicator

Pressure switch / transmitter

Temperature indicator

Manual refill pump

Water-cooled (Style 342), air-cooled (Style 343) or finned pipe heat exchanger

Optional recirculation pump for thicker fluids

Base frame, pipes and fittings



API PLAN 53C

External reservoir providing pressurized barrier fluid to double

mechanical seals for fluctuating pressure applications. Pressurization is made through a reference line from seal chamber and a piston booster.

SEALTEK® Api Plan 53C Includes

Piston booster of standard API682 sizes

Pressure indicator

Level or piston position indicator

Level or piston position switch / transmitter

Differential pressure switch / transmitter

Temperature indicator

Water-cooled (Style 342) or finned pipe heat exchanger

Optional recirculation pump for thicker fluids

Base frame, pipes and fittings



STYLE 300 THERMOSIPHON SYSTEM

Buffer/barrier fluid tank in stainless steel for Plan 52 and 53, manufactured according with ASME and PED standards. Stainless steel connections, welded see-through level indicator in borosilicate glass, stainless steel safety valve. Can be customized with a wide range of accessories, including refilling unit and cooling coil. Also available according to API682 standard.

Technical data

Volume (lt)	5, 7, 9, 12, 18
Operating pressure	30 bar
Operating temperature	-60°C ÷ 200°C
Body material	1.4301 (AISI 304) , 1.4571 (AISI 316Ti)
Cooling capacity (with coil)	1,5kW (4 kW with forced circulation)

**STYLE 330** LIGHT DUTY THERMOSIPHON SYSTEM

Buffer/barrier fluid tank in synthetic plastic material. Although extremely economical, this model is capable of covering the large majority of non-API Plan 52 and 53A applications where high temperatures or pressures are not involved. Available with internal magnetic driven pump for improved fluid circulation, quick connectors, pressure gauge, level indicator, thermometer, safety valve.

Technical data

Volume (lt)	5, 7, 9
Operating pressure	10 bar
Operating temperature	-30°C ÷ +70°C
Body material:	Polychloroethene, SPI - resin identification c.s.3
Metal parts:	DIN 1.4301
Temperature/Level indicator sight-through	Polycarbonate

**STYLE 342** HEAT EXCHANGER

Water-cooled heat exchanger, customizable upon requested heat transfer area, pressure and cooling capacity. Process/barrier fluid is in the shell, while cooling fluid is in inside pipes. Can be provided as stand-alone item or as part of a fully assembled API Plan 21, 22, 23 and 41.

Technical data

Shell material	DIN 1.4404 ; 1.4571
Gaskets material	PTFE, FKM, Expanded graphite
Heat exchange area	0,6m ² (standard version)
Heat exchange capacity	36kW (standard version)
Operating temperature	350°C
Operating pressure	16 bar (pipe), 50 bar (shell)

**STYLE 320** CYCLONE SEPARATOR

Cyclone separator to automatically convey contaminants from process fluid to pump suction. Inside wear parts made in silicon carbide for enhanced abrasion resistance. Available as stand-alone item, or as part of a fully assembled API Plan 31 or 41.

Technical data

Operating temperature	Up to 125°C
Operating pressure	Up to 62 bar
Pressure differential range	1,3 to 8 bar
Shell material	DIN 1.4404
Insert material	Silicon carbide
Gaskets and o-ring material	FKM



BRAIDED PACKING overview



"If you believe a high quality packing is expensive, you have yet to experience how much a low quality packing will cost you in the end".

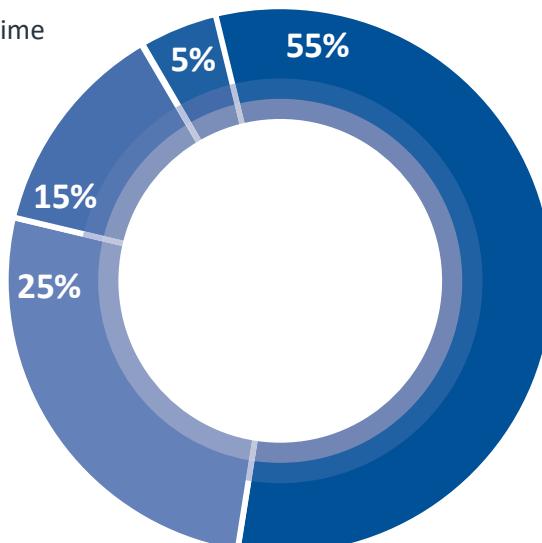
A high quality fiber from the most reliable manufacturers, a proper impregnation and a perfect braiding are the key factors for the production of efficient and effective gland packing. Several factors can make the difference between a **quality product able to withstand a full production cycle with relatively low material wear** and a low technology packing which, after an initial saving on the purchase, causes several additional costs during the course of its operational life. Sealtek proudly offers a very wide range of braided packing where **every single product is guaranteed to represent the current state of the art of its type**.

<p>X Packing with irregular size will generate oversized and undersized rings. Excessive friction will take place at the bigger ring and increased leakage will occur at the smaller, thus requiring further adjustment and consequent mechanical stress, resulting in reduced packing lifetime.</p>	<p>✓ A controlled density packing with uniform ring sizes can maximize the sealing action while at the same time minimizing the required compression, which in turn causes a lower friction on the sleeve and a lower mechanical stress on the packing itself, thus increasing their operational life.</p>
<p>X Low quality lubricants will cause a greater packing friction, increased sleeve wear and energy absorption, higher demand of cooling fluid.</p>	<p>✓ High quality lubricants reduce friction and heat generation, thus extending packing lifetime and minimizing the need for cooling and the costs for absorbed energy</p>
<p>X A quicker wear of the packing rings requires more man-hours to keep leakage under control, and can cause unscheduled maintenance stops and undesirable machine downtime, resulting in additional costs.</p>	<p>✓ Slower packing wear reduces leakage and personnel cost for machine monitoring. A maximized packing lifetime enables the machine to be stopped only for its scheduled maintenance.</p>

While the cost associated with a high quality packing able to stay in place as long as needed can be easily calculated, **the effects of an unscheduled maintenance is often difficult to predict and to quantify**. Since the cost of the packing itself will happen to be but the smallest part of the total machine operation and maintenance expenditure, it becomes clear how **high quality products can avoid or minimize all the other related expenditures and can quickly represent a very rewarding investment for any industrial application**.

PACKING OPERATIONAL COST

- 55% Production loss due to machine downtime
- 25% Value of leaked fluid
- 15% Labor cost
- 5% Packing purchase cost



STYLE 1000 POLYCRYSTALLINE GRAPHITE YARN WITH LIGHT PTFE COATING

100% synthetic crystalline graphite fiber, impregnated with colloidal graphite on synthetic oil.



Applications

T °C	-250 ÷ +650		
P bar	80	120	150
V m/sec	25	10	2
pH	0 ÷ 14		

- Cryogenic applications
- Centrifugal pumps
- Chemical industry
- Power generation industry



STYLE 1001 CARBOX YARN

Pure preoxidized carbon P.A.N. yarn, impregnated with colloidal graphite on synthetic oil.



Applications

T °C	-50 ÷ +500		
P bar	40	100	150
V m/sec	20	2	1
pH	2 ÷ 12		

- Medium temperature steam and hydrocarbons valves
- Medium temperature steam and hydrocarbons dynamic applications



STYLE 1001/N PANOX YARN

Pure preoxidized carbon yarn, impregnated with colloidal PTFE suspension.



Applications

T °C	-40 ÷ +300		
P bar	80	120	150
V m/sec	25	10	2
pH	0 ÷ 14		

- Centrifugal and reciprocating pumps
- Mixer, agitators
- Dryers
- Valve stems



STYLE 1002 IMX GRAPHITE YARN

99% Synthetic graphite fiber, impregnated with colloidal graphite on synthetic oil (<2%).



Applications

T °C	-80 ÷ +500		
P bar	25	50	100
V m/sec	35	4	1
pH	0 ÷ 14		

- Heavy duty high temperature pumps and valves applications
- Aggressive fluids



BRAIDED PACKING



STYLE 1003 IMX GRAPHITE YARN

96% Synthetic graphite fiber and 4% Inconel alloy, impregnated with colloidal graphite on synthetic oil (<2%).

				Applications
T °C		-80	÷ +500	
P bar	-	100		250
V m/sec	-	2		1
pH		0 ÷ 14		



STYLE 1009 COMBGRAPH YARN

38% synthetic graphite fiber and 62% expanded graphite, impregnated with non-metallic corrosion inhibitor.

				Applications
T °C		-150	÷ +650	
P bar	60	80		150
V m/sec	30	5		1
pH		0 ÷ 14		



STYLE 1009X ULTRAGRAPH YARN

40% carbographite fiber carrier and corners, 60% expanded graphite twisted ribbons, impregnated with non-metallic corrosion inhibitor.

				Applications
T °C		-150	÷ +750	
P bar	100	150		300
V m/sec	30	10		8
pH		0 ÷ 14		



STYLE 1023T POLYPROPYLENE JACKET AND PTFE YARN

Acrylic fibers wrapped in PTFE yarns around a silicon core. Can withstand repeated opening and closing cycles of tank lids.

				Applications
T °C		-30	÷ +160	
P bar	-	-		20
pH		0 ÷ 14		



STYLE 1024 **PURE PTFE YARN**

100% PTFE braided with High Controlled Density method, impregnated with PTFE dispersion.



Applications

T °C	-240 ÷ +280		
P bar	50	100	500
V m/sec	2	1	1
pH	0 ÷ 14		

- Strong chemicals on static applications (valves, gates, taps, covers, manholes)
- Strong chemicals on low speed centrifugal or reciprocating pumps.

**STYLE 1025** **FOOD GRADE PURE PTFE YARN**

100% PTFE braided with High Controlled Density method, impregnated with food-grade lubricant. Braided in white clean room.



Applications

T °C	-200 ÷ +280		
P bar	25	100	-
V m/sec	8	2	-
pH	0 ÷ 14		

- Chemical, food and pharmaceutical industry

**STYLE 1026** **META-ARAMID YARN**

Meta-aramid long fibers braided with High Controlled Density method, impregnated with 40% colloidal PTFE.



Applications

T °C	-30 ÷ +300		
P bar	60	80	100
V m/sec	15	5	2
pH	1 ÷ 13		

- Heavy duty applications
- Pulp & Paper applications requiring non-staining white packing

**STYLE 1027** **PHENOLIC KYNOL® YARN**

Phen-Top fibers braided with High Controlled Density method, impregnated with colloidal PTFE and synthetic oil.



Applications

T °C	-80 ÷ +260		
P bar	30	50	80
V m/sec	25	12	1
pH	3 ÷ 12		

- General applications
- Pulp & Paper applications requiring non-staining white packing



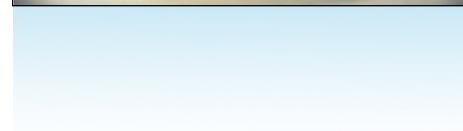
BRAIDED PACKING



STYLE 1028 PURE PTFE YARN

100% PTFE braided with High Controlled Density method, impregnated with colloidal PTFE.

				Applications
T °C	-240 ÷ +280			
P bar	25	50	100	
V m/sec	8	4	2	
pH	0 ÷ 14			



STYLE 1028X HIGH SPEED PTFE YARN

100% pure expanded PTFE yarn with encapsulated lubricants, meets FDA CFR 177.550 regulations.

				Applications
T °C	-100 ÷ +280			
P bar	20	30	-	
V m/sec	15	2	-	
pH	0 ÷ 14			



STYLE 1029 RAMIE YARN

Texturized and treated vegetal fiber, impregnated with colloidal PTFE and synthetic oil.

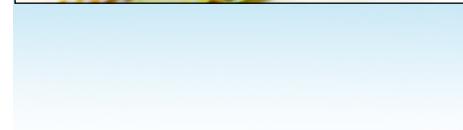
				Applications
T °C	-30 ÷ +140			
P bar	20	30	40	
V m/sec	15	6	1	
pH	4 ÷ 11			



STYLE 1037 KYNOL/ARAMID YARN

Aramid structure, with phenolic-reinforced corners, colloidal PTFE impregnation and silicone rubber core.

				Applications
T °C	-50°C ÷ +200°C			
P bar	35	50	100	
V m/sec	20	15	2	
pH	2 ÷ 12			



STYLE 1040 ARAMID YARN

Aramid long fibers, impregnated with 20% colloidal PTFE and synthetic oil.



Applications

T °C	-100 ÷ +280		
P bar	50	100	200
V m/sec	20	2	1
pH	2 ÷ 12		

- Centrifugal and plunger pumps, valves, expansion joints
- Water, steam, solvents, acids, medium/weak alkalis, oils
- Marine industry
- Pulp & Paper industry



STYLE 1042 ARAMID YARN WITH PTFE

Aramid staple fibers, impregnated with 25% colloidal PTFE and synthetic oil.



Applications

T °C	-80 ÷ +260		
P bar	30	50	80
V m/sec	20	12	1
pH	3 ÷ 12		

- Pumps, valves, expansion joints and piston pumps
- Water, steam, solvents, weak acids and alkalis, oil by-products
- Chemical, pulp & paper, pharmaceutical, food and water treatment industry



STYLE 1043 ARAMID YARN WITH GRAPHITE

Aramid staple fibers, impregnated with 25% colloidal graphite and synthetic oil.



Applications

T °C	-80 ÷ +350		
P bar	70	150	300
V m/sec	20	5	2
pH	2 ÷ 13		

- Heavy duty high temperature and pressure applications
- Boiler feed pumps, steam valves and gates.



STYLE 1044 ARAMID YARN WITH PTFE - GRAPHITE

Aramid fibers and interlocked PTFE - graphite, impregnated with colloidal PTFE and synthetic oil.



Applications

T °C	-80 ÷ +280		
P bar	70	150	300
V m/sec	20	5	2
pH	2 ÷ 13		

- Centrifugal and plunger pumps
- Mixers and reactors



BRAIDED PACKING



STYLE 1048 PURE PTFE YARN

Pure PTFE yarn with corners reinforced with continuous aramid fibers, impregnated with colloidal PTFE and synthetic oil.

				Applications
T °C	-200 ÷ +280			
P bar	25	300	500	<ul style="list-style-type: none"> Centrifugal and piston pumps, mixers, valves.
V m/sec	10	3	1	<ul style="list-style-type: none"> Food, chemical and pharmaceutical industry
pH	3 ÷ 12			



STYLE 1050 ORIGINAL PTFE-GRAPHITE

Expanded PTFE with pure graphite dispersion.

				Applications
T °C	-200 ÷ +280			
P bar	50	70	100	<ul style="list-style-type: none"> Centrifugal pumps, reactors, mixers
V m/sec	25	5	2	<ul style="list-style-type: none"> Valves, gates, taps, expansion joints
pH	0 ÷ 14			<ul style="list-style-type: none"> Static seal on almost any chemical



STYLE 1051 HYBRID PTFE-GRAPHITE YARN

Expanded PTFE with graphite colloid dispersion.

				Applications
T °C	-120 ÷ +250			
P bar	40	60	80	<ul style="list-style-type: none"> Worn shafts and pumps in poor conditions
V m/sec	20	4	1	<ul style="list-style-type: none"> Centrifugal, plunger and piston pumps Valves and static applications
pH	0 ÷ 14			



STYLE 1055 HYBRID PTFE-GRAPHITE YARN ON ARAMID

Aramid carrier wrapped with PTFE-graphite foil. High heat dissipation and tensile strength.

				Applications
T °C	-30 ÷ +260			
P bar	80	100	150	<ul style="list-style-type: none"> High pressure applications
V m/sec	15	4	2	<ul style="list-style-type: none"> Worn shafts
pH	0 ÷ 14			<ul style="list-style-type: none"> High speed applications



STYLE 1066 GRAPHITE-ALUMINUM YARN

25% anti-friction metal foil and 75% expanded graphite, impregnated with corrosion inhibitor.



Applications

T °C	-20 ÷ +550		
P bar	120	200	300
V m/sec	10	3	1
pH	3 ÷ 11		

- Slow to medium shaft speed applications
- High temperature centrifugal pumps applications
- Crude oil, tar, distillates and lower fractions, heat transfer fluids, hot oil
- Sugar industry, crystallizers, paints
- Shafts with hardness > 500° brinnel

**STYLE 1077 PTK 28 YARN WITH PTFE**

Texturized acrylic fiber, impregnated with 40% colloidal PTFE and synthetic oil.



Applications

T °C	-25 ÷ +200		
P bar	25	40	60
V m/sec	15	3	1
pH	3 ÷ 12		

- General industry
- Pulp & Paper applications requiring non-staining white packings

**STYLE 1077G PTK 28 YARN WITH GRAPHITE**

Texturized acrylic fiber, impregnated with 30% colloidal graphite and synthetic oil.

Higher heat dissipation than Style 1077.



Applications

T °C	-25 ÷ +200		
P bar	25	40	60
V m/sec	15	3	1
pH	3 ÷ 12		

- General industry

**STYLE 1080 ARAMID AND SYNTHETIC CARBON YARN**

Interbraided pre-oxidated PAN and aramid fibers, impregnated with 30% colloidal PTFE and synthetic oil.



Applications

T °C	-60 ÷ +260		
P bar	50	70	120
V m/sec	30	10	3
pH	1 ÷ 13		

- Slurries, polymerizing fluids, glue, pitches, abrasive fluids



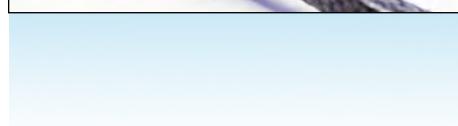
BRAIDED PACKING



STYLE 1099 COMBIGRAPH YARN

91% Expanded graphite wrapped around 9% synthetic graphite, impregnated with non-metallic corrosion inhibitor.

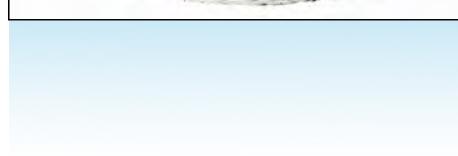
				Applications
T °C	-150 ÷ +650			
P bar	30*	80*	120*	
V m/sec	35	3	1	
pH	0 ÷ 14			
* with anti extrusion rings				



STYLE 1099R COMBIGRAPH YARN (REINFORCED)

93% Expanded graphite wrapped around 7% Inconel alloy wire, impregnated with non-metallic corrosion inhibitor

				Applications
T °C	-150 ÷ +550			
P bar	-	-	300	
V m/sec	-	-	2	
pH	0 ÷ 14			



STYLE 1111 INCOGRAPH YARN

85% Expanded graphite wrapped around 15% Inconel alloy wire, impregnated with non-metallic corrosion inhibitor

				Applications
T °C	-150 ÷ +650			
P bar	-	-	300	
V m/sec	-	-	2	
pH	0 ÷ 14			



STYLE 1300 UNSINTERED PTFE

Pure unsintered PTFE yarn with special lubricants, its softness reduces shaft friction and allows a high degree of moldability. Available with addition of graphite dispersion (Style 1301).

				Applications
T °C	-58 ÷ +500			
P bar	10	-	-	
V m/sec	10	-	-	
pH	0 ÷ 14			



ULTRASEAL

Self moldable gasket tape, manufactured from 100% pure virgin PTFE fibers in a multidirectional form, through a special process. The tape's high tensile strength makes it ideal for use as long lasting and reliable gasket.

It is self-adhesive, making installation easier and it is available in various sizes and thicknesses to accommodate most applications.

Features

- Easy to install
- Self adhering
- No scraping on removal
- Fills flange irregularities
- Highly compressible
- Only light torque on bolts required
- 100% PTFE
- Cold flow and creep resistant
- No retorquing required
- Seals up to 3000 PSI (200 Bar)
- Temperatures range -450°F ÷ +600°F (-240°C ÷ +280°C)
- Virtually inert to all chemicals
- No age deterioration
- Non contaminating
- No material waste



ULTRASEAL GRAPH

Self moldable gasket, designed and manufactured for sealing parts requiring heavy torque at high temperatures. The high percentage of pure graphite embodied within the expanded PTFE pores enables Ultraseal® GRAF to greatly dissipate heat, avoiding material shrinkage or dimensional modifications. Recommended for sealing manhole covers, fume ducts, steam vessel flanges and, in general, when a better dimensional stability or heat resistance than the normal Ultraseal®'s is required.

Features

- Easy to install
- Self adhering
- No scraping on removal
- Fills flange irregularities
- Highly compressible
- Used in high temperature
- Only light torque on bolts required
- Resists to high torque
- Seals up to 3000 PSI (200 bar)
- Temperatures -450°F ÷ +600°F (-240°C ÷ +280°C)
- Virtually inert to all chemicals
- No age deterioration
- Non contaminating
- No time spent cutting gaskets
- Reduces stocking space
- No retorquing, no labor costs
- Longer lasting
- Unlimited shelf life

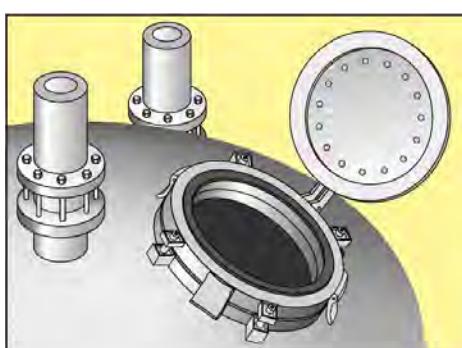
Applications

- Manholes
- Fume ducts
- Seam vessel
- Flanges
- ...



Sizes Cod.

mm 14 x 5	mt.10	7021410
mm 17 x 6	mt. 10	7021710
mm 20 x 7	mt. 10	7022010



WARNING! it is essential that before reaching the vapor phase, the bolts are checked several times and, if necessary, adjusted.

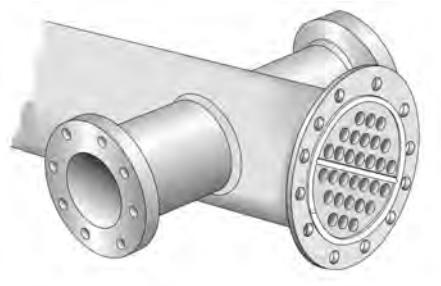


ULTRASEAL HD

Self moldable gasket, manufactured for use on large dimension, high torque couplings. The high density expanded microstructure of this material resists extrusion, flow and can be subjected to high tension and pressure. Specific application is on heat exchangers, because the material's reduced thermal expansion ratio offers good performance even under continuous thermal shock.

Features	Applications	Sizes	Cod.
<ul style="list-style-type: none"> • High density • Easy to install • Self adhering • No scraping on removal • Fills flange irregularities • Highly compressible • Only light torque on bolts required • No retorquing required • Seals up to 3000 PSI (200 bar) • No age deterioration • No material waste • No time spent cutting gaskets • Reduces stocking space • Unlimited shelf life • Low thermal expansion coefficient 	<ul style="list-style-type: none"> • Heat exchangers • Sealing small flange area 	mm 6 x 4,5 mt.25	7010625
		mm 10 x 5 mt. 10	7011010
		mm 10 x 5 mt. 25	7011025
		mm 17 x 6 mt. 10	7011710

WARNING! it is essential that before reaching the vapor phase, the bolts are checked several times and, if necessary, adjusted.



ULTRASEAL TP

Self-modeling tape gasket made of multidirectional microporous 100% pure PTFE. Equipped with very high tensile strength, it can be easily applied to all surfaces where a safe and long-lasting seal is required.

It has a self-adhesive surface that facilitates assembly and is available in various sizes for surfaces of all sizes.

Features	Applications
<ul style="list-style-type: none"> • Easy to install • Self-adhesive • Easy to remove • High compressibility • Secure hold with minimal bolt tightening • Registrations no longer needed • For pressures up to 2900 Bar • Does not age • No waste • No wasted time cutting gaskets • Reduction of warehouse stocks • Unlimited duration 	<ul style="list-style-type: none"> • Flanges • Fireplaces • Pump bodies • Ceramic connections • Ventilation ducts • Gearbox covers

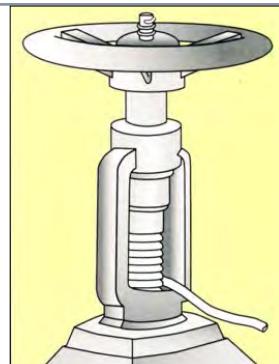


Sizes	Cod.	Sizes	Cod.
mm 3,0 x 1,5 mt.25	7000325	mm 14 x 5,0 mt. 10	7001410
mm 5,0 x 2,0 mt. 25	7000525	mm 14 x 5,0 mt. 25	7001425
mm 7,0 x 2,5 mt. 25	7000725	mm 17 x 6,0 mt. 10	7001710
mm 10 x 3,0 mt. 10	7001010	mm 17 x 6,0 mt. 25	7001725
mm 10 x 3,0 mt. 25	7001025	mm 20 x 7,0 mt. 5	7002005
mm 12 x 4,0 mt. 25	7001225	mm 20 x 7,0 mt. 25	7002025

ULTRALON S

ULTRASEAL® self-modeling gasket with round section in pure expanded multidirectional PTFE. Designed and built specifically for taps, valves and gate valves as a “real time seal”, immediately available, without limitation of size, also applicable to equipment in poor condition or to systems made with delicate materials such as ceramic or glass.

Extremely easy and fast to use, it allows enormous savings in time and materials.

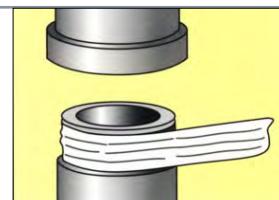


Features	Applications
<ul style="list-style-type: none"> Easy to install and remove Also for uneven surfaces High compressibility Secure hold with minimal tightening Operating pressures up to 2900 PSI No waste Unlimited duration 	<ul style="list-style-type: none"> Valves Gate valves Taps

Sizes	Cod.	Sizes	Cod.
mm 3 mt. 50	7160350	mm 10 mt. 10	7161010
mm 4 mt. 40	7160440	mm 12 mt. 10	7161210
mm 6 mt. 25	7160625	mm 14 mt. 10	7161410
mm 7 mt. 25	7160725	mm 16 mt. 10	7161610
mm 8 mt. 25	7160825		

ULTRATAPE S + ULTRATAPE M.D. + ULTRATAPE H.D.

Seals tape in pure multidirectional expanded PTFE. Thanks to its particular structure, it completely fills the spaces between the threads ensuring a safer seal even in the presence of sudden changes in temperature and aggressive chemicals. Particularly suitable for large or damaged fillets, where traditional ribbons would be irremediably crushed and cut. Indispensable for the threads of stainless steel material where normally the peaks of the threads cut the fibers of the traditional tapes, preventing a good seal.



Features
<ul style="list-style-type: none"> Good sealing results Flexibility Non contaminating, non toxic Temperatures range -450°F ÷ +600°F For large size or stainless threads Meets FDA requirements

	Sizes	Cod.
ULTRATAPE S	mm 0,20 x 12	mt.15 7131320
ULTRATAPE S	mm 0,20 x 19	mt.15 7131321
ULTRATAPE M.D.	mm 12,7	mt.12 7131311
ULTRATAPE H.D.	mm 12,7	mt.12 7131312



ZERO LEAKAGE SYSTEM overview



SEALTEK® Zero Leakage System® offers a variety of fibrous flexible compounds, replacing compression packing in the stuffing box.

This material evenly surrounds the shaft and works like a lubricated plug, eliminating pressure points. It ensures minimal friction, extended sleeve life due to no scoring and provides significant energy savings.

Zero Leakage System is available in various synthetic fibers, mixed with tixotropic and other lubricants. It is pressure treated to ensure uniform dispersion.

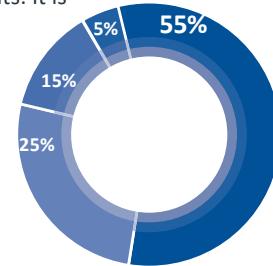
BRAIDED PACKING OPERATIONAL COST

55% Product loss due to machine downtime

25% Value of leaked fluid

15% Labor cost

5% Packing purchase cost



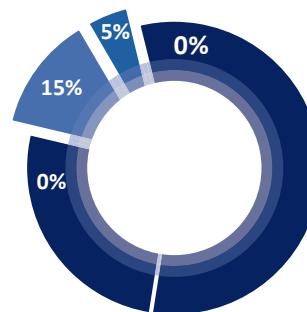
PACKING OPERATIONAL COST WITH ZERO LEAKAGE SYSTEM

0% Product loss due to machine downtime

0% Value of leaked fluid

15% Labor cost

5% Packing purchase cost



BRAIDED PACKING

Leakage is necessary for lubrication.

X Optimal rate generally varies from 30 to 50 drops per minute, which can represent a yearly loss of more than 1200 lt (320 gal) of product.

X Packing require frequent replacements, causing machine shutdown and loss of production.

X Cooling made through lantern ring requires high water consumption. Packing compression reduces its effectiveness.

X To ensure prompt replacement, each packing size employed in a plant must have a large backup inventory. Demand peaks for a given size can cause downtime if not enough packing are on stock.

X Friction, especially with harder fibers that are needed for abrasive fluids, causes a very high absorption of power and a quick wear of the sleeve.

ZERO LEAKAGE SYSTEM

✓ With a correct application, and under optimal mechanic conditions of the pump, leakage can be as low as Zero.

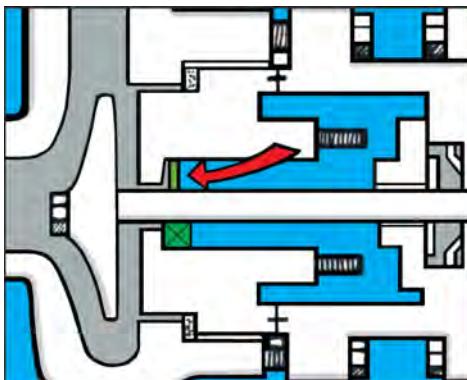
✓ After the first application, there is no replacement. Zero Leakage System is only refilled, without stopping the machine.

✓ No cooling or flushing is required.

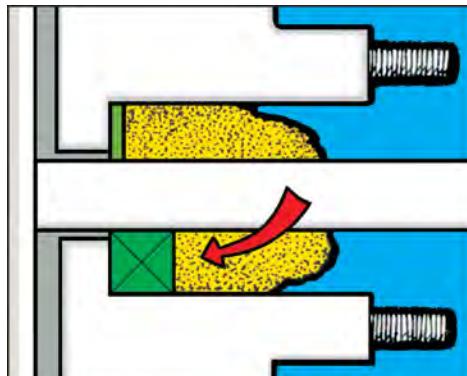
✓ The same inventory can be used for stuffing boxes of ALL sizes and standards in the plant. Total inventory required for prompt replacement of all the plant's equipment is considerably lower. Stock control is easy, demand peaks are unlikely as ZLS is slowly refilled rather than replaced.

✓ While friction against the sleeve does take place, the self-lubricating fibers reduce it to only a fraction, if compared with braided packing.

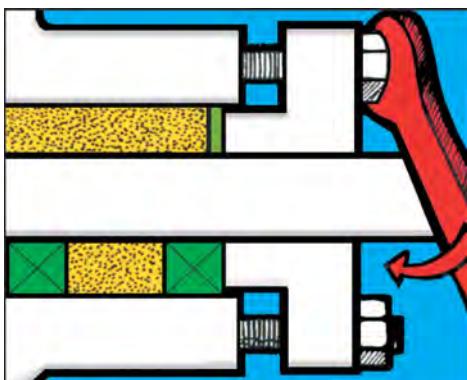
HOW IT WORKS:



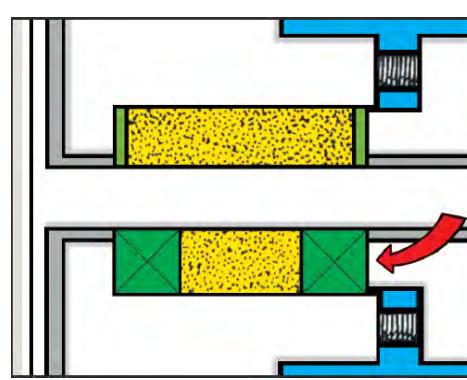
1 Install an anti-extrusion ring of braided packing or solid PTFE.



2 Hand fill stuffing box with compound, using gland follower to compact.



3 Install an anti-extrusion braided packing ring or a solid PTFE washer at gland side and "close" with stuffing box gland.



4 Tighten gland nuts to compress the compound and start up pump valve.

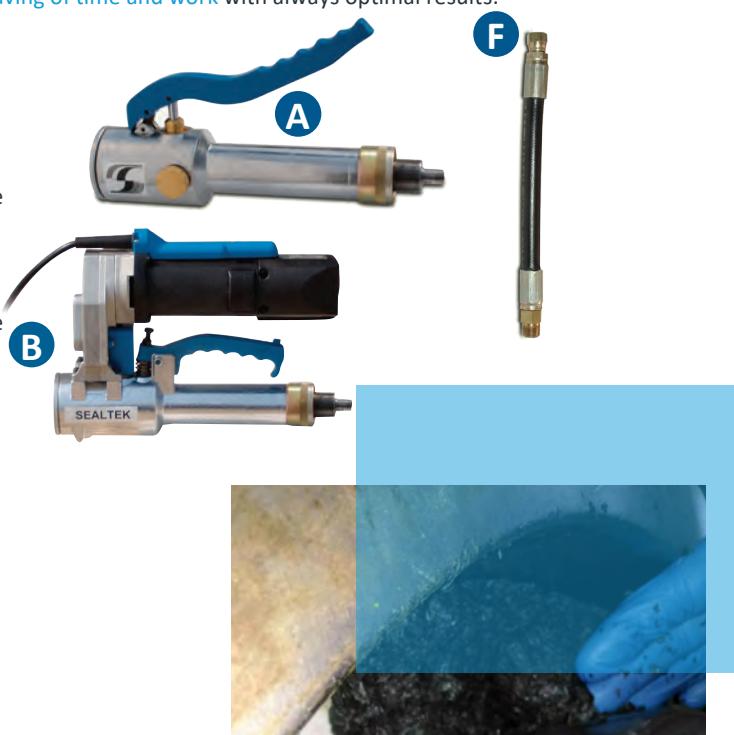
INJECTION SYSTEM

SEALTEK® specifically designed and realized a new advanced **system to directly "inject"** on the stuffing box the "Zero Leakage" compounds. This new device allows the operator a tremendous **saving of time and work** with always optimal results.

It is very easy and can be done also by **unspecialized workers**.

Il sistema SEALTEK® ZLS consists of:

- A una pompa oleodinamica in configurazione manuale
- B una pompa oleodinamica in configurazione elettrica
- C una pompa oleodinamica in configurazione ad alta pressione
- D un cilindro in lega di alluminio "Aerospace grade",
- E un tubo ad alta pressione
- F un raccordo specifico per tubo ad altra pressione
- G un kit completo di connettori di varie dimensioni da collegare al foro di flussaggio della cassa stoppa.



First installation should always be made by hand

ZERO LEAKAGE SYSTEM



STYLE ONE PTFE + graphite

Injectable packing compound made of **expanded PTFE** and **graphite short fibres**, mixed with tixotropic gel and special additives for heat dissipation. A revolutionary compression packing replacement, offering “zero leakage” conditions in many applications. Chemically inert, for easier plant standardization.



T °C	-80 ÷ +280		
P bar	20	35	70
V m/sec	20	8	4
pH	0 ÷ 14		
Vol	615 cm ³ /Kg		



STYLE TWO Aramid fibers

Injectable packing compound of 100% para-aramid, **pure virgin Twaron® fibres** mixed with clear tixotropic and PTFE lubricants. **Will not stain or contaminate**. Especially designed for use in paper mill applications, abrasive fluids, slurries and sewage water. No flushing is necessary, resulting in great savings in water and product.



T °C	-35 ÷ +260		
P bar	25	40	80
V m/sec	18	4	2
pH	2 ÷ 13		
Vol	830 cm ³ /Kg		



STYLE FIVE PTFE fibers

Injectable packing compound made of **virgin PTFE textured fibres** and special inert lubricants for extremely high performances.

Meets **FDA requirements**. Ideal for packing pumps and valves in **food plants, pharmaceutical and chemical industries and drinking water production**.

No flushing is required, can be compressed close to “zero leakage”.



T °C	-80 ÷ +260		
P bar	20	30	60
V m/sec	8	3	1
pH	0 ÷ 14		
Vol	640 cm ³ /Kg		



STYLE SEVEN Expanded Graphite

Injectable packing compound designed for heavy duty applications of high temperature and pressure, made of **100% expanded pure graphite**. Suitable for steam valves, boiler feed and hot oil pumps, etc. No shaft or sleeve scoring. Highly recommended for use on old equipment in bad mechanical conditions.



T °C	-30 ÷ +600		
P bar	40	70	90
V m/sec	25	5	2
pH	0 ÷ 14		
Vol	710 cm ³ /Kg		



STYLE TF350 Unbleached PTFE

Unique chemically resistant compound based on **pure PTFE fibers and expanded PTFE pellets**, mixed with special tixotropic lubricants. A great sealant achieving close to zero leakage conditions in packed pumps, valves and other devices with a peripheral speed of up to 8 m/sec. Recommended for use in cryogenic or high temperature applications. Seals almost all fluids including aggressive chemicals. **Does not stain**.



T °C	-40 ÷ +260		
P bar	20	30	60
V m/sec	8	3	1
pH	0 ÷ 14		
Vol	610 cm ³ /Kg		



STYLE P99 G - P99GP Aramid + Graphite

Pure virgin Twaron® fibers mixed with **expanded mineral graphite flakes** and special tixotropic heat resistant lubricants. This compound is designed for use in heavy duty pumps and valve applications, such as hot water, steam and diathermic oils, due to its excellent capacity for heat dissipation.

Available also as Style P99 GP, containing **anti friction metal pellets**, for specific use in applications with worn shafts or pumps in bad mechanical condition.



T °C	-20 ÷ +300		
P bar	30	50	80
V m/sec	20	5	1
pH	1 ÷ 13		
Vol	620 cm ³ /Kg		



FLAT GASKETS overview



FLAT GASKETS GUIDELINES:

- Pressure and temperature limits are indicative and **should never be combined at their maximum values**.
- Surface compression should not exceed the maximum pressure of each individual material.
- Surface to be sealed must be free of pitting, flat, smooth, clean of dirt or old gaskets deposits.
- Parallel flanges are a necessary condition** to avoid premature gasket failure.
- It is strongly recommended to use **torque wrench** when tightening.
- No anti-sticking agent** should be applied when using **Sealtek®** gaskets.
- All **Sealtek®** gaskets are pre-treated with a nonstick agent and do not require any additional protection.

t & t



MAX TEMP.	550°C	550°C	550°C	550°C	280°C	250°C	300°C	200°C	260°C	260°C	260°C
STYLE	3000	3001	3002	3004	4005	4205	4400	5005	6000	6011	6050
AIR up to 95°C	○	○	○	○	○	○	○	○	○	○	○
HYDROGEN	○	○	○	○	/	/	/	●	○	○	○
NATURAL GAS	○	○	○	○	○	○	○	○	○	○	○
LOW PRESSURE STEAM	○	○	○	○	●	●	○	/	○	●	●
SATURATED STEAM	○	○	○	○	/	/	●	/	/	/	/
SUPERHEATED STEAM	○	○	○	○	/	/	/	/	/	/	/
DIATHERMIC OIL	○	○	○	○	●	/	○	/	○	●	●
WATER	○	○	○	○	○	○	○	○	○	○	○
SUPERHEATED WATER	○	○	○	○	○	○	○	○	○	○	○
AMMONIA	○	○	○	○	○	○	○	○	○	○	○
MILD ALKALIS	○	○	○	●	○	○	○	○	○	○	○
STRONG ALKALIS	○	○	○	○	○	○	○	○	○	○	○
MILD ACIDS	○	○	○	●	○	○	○	○	○	○	○
STRONG ACIDS	●	○	●	●	○	○	○	○	○	○	○
PETROLEUM SOLVENTS	○	○	○	○	○	○	○	○	○	○	○
NON AROMATIC SOLVENTS	○	○	○	○	○	○	○	/	○	○	○
CHLORINATED SOLVENTS	○	○	○	○	/	/	/	/	○	○	○
PAINTS	○	○	○	○	/	/	●	●	○	○	○
KETONES	○	○	○	○	/	/	/	/	○	○	○
FUELS	○	○	○	○	○	○	○	●	○	○	○
FREON	○	○	○	○	○	○	○	○	○	○	○
HYDRAULIC OILS	○	○	○	○	●	●	○	●	○	○	○
NUCLEAR POWER PLANTS	/	○	/	/	/	/	/	/	○	○	○
PER F.D.A. REQUIREMENTS	/	○	/	/	○	○	/	/	○	○	○

○ Suggested

● To be prudently evaluated

/ Not suitable

For other applications, please consult factory

STYLE 3000

Gasketing sheet in [pure expanded graphite](#) reinforced with [AISI 316 steel multiple layers](#). Does not contain binders. Can virtually be used on all applications, even the heaviest ones. Withstands [extreme temperatures](#), does not stick and is not affected by aging or hardening. Particularly suitable for low surface pressure flanges and heavy duties.

Technical data

Max. Pressure	130 bar
Max. Temperature	550°C
P x T Factor	max 30.000
Color	Black



STYLE 3001

Gasketing sheet in [expanded pure mineral graphite](#) reinforced with [tanged AISI 316 foils](#) with no binder. Can be used in all applications, even the heaviest ones. High pressure and temperature resistant, does not stick and is not affected by ageing or hardening. Thermal shock resistant, [no hot/cold flow](#), high recovery, with inorganic corrosion inhibitor and scratch-proof surface treatment.

Technical data

Max. Pressure	130 bar
Max. Temperature	550°C
P x T Factor	max 40.000
Color	Black



STYLE 3002

Gasketing sheet in [expanded pure mineral graphite](#), reinforced with a [AISI 316 steel net](#). Does not contain binders. It can be virtually used on all applications, including the heaviest ones. Extreme temperature resistant. Does not stick and is not affected by ageing. Particularly suitable in flanges with low surface pressure and heavy duty applications. [Ideal for cut gaskets production](#) due to its ease of cutting.

Technical data

Max. Pressure	130 bar
Max. Temperature	550°C
P x T Factor	max 30.000
Color	Black



STYLE 3004

Gasketing sheet in pure graphite, in [sandwich structure](#), made of expanded pure graphite central core, [lined on both sides by aluminum foil](#). It represents the ultimate recent innovation in the gaskets field, eliminating problems related to the use of pure graphite. [Easily handled and cut](#).

Technical data

Max. Pressure	80 bar
Max. Temperature	550°C
P x T Factor	max 24.000
Color	Silver



FLAT GASKETS

STYLE 4005

Asbestos free gasketing sheet, made of [aramid fibers](#), [Rockwool fibers](#), and [elastomeric NBR binders](#). Manufactured as standard material for a wide range of applications in all industries. Excellent tensile strength, elastic and resilient, does not stick to gland surface. Very competitively priced.

Technical data

Max. Pressure	100 bar
Max. Temperature	300°C
P x T Factor	21.000
Color	Green



STYLE 4205

Compressed sheet material made of aramid fiber with NBR rubber and [special inorganic fillers](#). Due to its high aramid fibers content, it achieves [excellent thermal values](#) and the material features a very good adaptability for coping with unevenness in flange surfaces. The combination of aramid fibers and physiologically neutral binding agents ensures the mechanical strength of the material. This makes the sheet flexible and very easy to handle.

Technical data

Max. Pressure	100 bar
Max. Temperature	300°C
P x T Factor	21.000
Color	Blue

STYLE 4400 XP

Gasketing sheet manufactured with an innovative system which [reinforces pure compressed graphite with aramid fibers](#) and a very low quantity of elastomeric binder. The high flexibility, the mechanical strength and the perfect resiliency eliminate any need for other reinforcements. Easy to handle and cut. Suitable for the heaviest applications. [Available with steel net reinforcement](#) (Style 4800).

Technical data

Max. Pressure	105 bar
Max. Temperature	350°C
P x T Factor	max 25.000
Color	Gray-black

STYLE 5005

Asbestos free gasketing sheet, made of [aramid fibers](#), [inert mineral fibers](#). PTFE and chemically high resistance synthetic binders. Combines [excellent resistance to chemical products](#) with good compressibility and recovery. Does not stick to surfaces thanks to Sealtek's surface anti-sticking agent.

Technical data

Max. Pressure	50 bar
Max. Temperature	200°C
P x T Factor	max 6.000
Color	Ivory

STYLE 6000

Style 6000 is a gasketing material containing **inorganic round beads** consistently spread over a **modified PTFE base**. This unique mixture allows for precision control over cold-flow problems inherent with virgin PTFE. The special mixture of Style 6000 virtually **eliminates the need for retightening** and is the result of over a decade of research, development and testing.

Technical data

Max. Pressure	250 bar
Max. Temperature	260°C
P x T Factor	max 20.000
Color	White



STYLE 6011

Gasket made of **biaxial silica-loaded pure PTFE**, suitable for a wide range of applications requiring the best possible mechanical strength. Can work on strong acids (except hydrofluoric), alkalis, solvents, hydrocarbons, chlorine, steam, oils, water, sewage. **Extremely low permeability to gases**, high resistance to **creep and cold-flow** if compared with traditional and modified PTFE and easy cutting properties.

Technical data

Max. Pressure	85 bar
Max. Temperature	260°C
P x T Factor	max 14.000
Color	Orange



STYLE 6050

High performances gasketing sheet made of **biaxial pure PTFE** loaded with **barium sulphate** and special inorganic micro-beads. Works on strong acids, alkalis, solvents, hydrocarbons, chlorine, steam, oils, water, fluorine and hydrofluoric acid. The chemical resistance is well combined with extremely **low permeability to gases**, high resistance to **creep and cold-flow** if compared with traditional PTFE.

Technical data

Max. Pressure	85 bar
Max. Temperature	260°C
P x T Factor	max 16.000
Color	Sky-blue

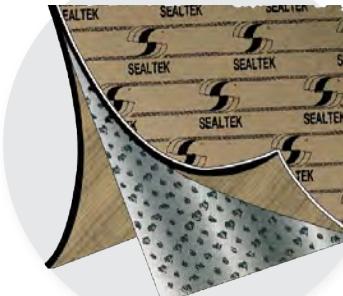


STYLE 8001 ULTRATHERM

Style 8001 Ultratherm is an innovative gasketing material completely **free of any rubber binding material**, graphite and synthetic fibers made of **pure laminated mica phlogopite** and reinforced with tanged AISI 316 steel. Perfectly resistant to scratches and bad handling. Offers great advantages on high temperature flanges of heat-exchangers, gas turbines, gas turbine housing, high temperature piping on power plants, steel mills and other critical applications.

Technical data

Max. Pressure	150 bar
Max. Temperature	950°C/1100°C
P x T Factor	55.000
Color	Light Brown





MAINTENANCE AND REPAIR PRODUCTS



Sealtek® SEAL-TEX IS A **FAST-CURING TAPE** ABLE TO REPAIR ANY PIPING:

- **in 20 minutes**
- **with the work of only one man**
- **with minimal costs**
- **without emptying the line.**

With only a small impregnation with water, used as a catalyst, the fast-curing tape can reach a **hardness of 80 shore A after 10-15 minutes of contact with moisture.**

It can be applied to pipes that are leaking or have corroded surfaces.



Sealtek® SEAL-TEX fast-curing tape **can withstand contact with a very wide range of fluids**, such as crude oil, sulfuric acid (>10%), caustic soda, steam and many others.

SEAL-TEX is officially certified and approved according to ASME PCC-2/2008 for repair of pressure equipment and piping.

Technical data

Pipe pressure without GF-HD	30 bar
Pipe pressure with GF-HD	50 bar
Flexural strength	ASTDM D709 111 N/mmsq
Tensile strength	ASTDM D638 172 N/mmsq
Compression strength	ASTDM D695 180 N/mmsq
Adhesion at one-inch single overlap	19 N/mmsq
Dielectric strength	16 KV/mm
Continuous temperature resistance	120°C - "XT" version up to 500°C
Peak temperature resistance	190°C - "XT" version up to 550°C
Chemical resistance	Water, salt water, oil, diluted acids, and alkalis
Shelf life	@20°C: 3 years



SEAL TEX XT high temperature curing tape

Continuous temperature resistance: up to 500°C

Peak temperature resistance: up to 550°C

ONLINE PIPELINE REPAIR

SELF SEAL SELF-POLYMERIZING TAPE

Sealtek® SELF-SEAL is a **self-polymerizing tape made of siliconic rubber**, suitable for immediate application before Sealtek® SEAL-TEX being used. Wrapping the tape around the leaking pipe will allow an easier and quicker repair operation, thanks to its self-conglomerating properties. To seal large holes, a wooden wedge or a screw can be employed, together with Sealtek® SELF-SEAL.

Technical data

Color	Blue
Resistant to	Oils, water, ozone, most chemicals
Max Temperature	260°C
Applications	Temporary leakage dampening for Seal-Tex ease of application; Low pressure sealing; Tools electric insulation



FLANGE-SEAL FLANGE COVER

Sealtek® FLANGE-SEAL is a **revolutionary system able to replace flange shields** in a very wide range of applications, removing the need of large stocks of different sized covers to match different sized flanges.

Technical data

Color	Gray
Resistant to	Oils, water, ozone, most chemicals
Max Temperature	260°C
Applications	Prevention of harmful spray-outs and mist formation from failing pipe joints



GF - HD FIBERGLASS PUTTY (HIGH DENSITY)

GF-HD is a **pre-dosed polymeric molecular compound** made of fiberglass grains and a catalyst which is inside the molecular matrix. The amount of product required for the repair can be cut off the stick and kneaded between fingers **until the two parts are completely mixed**, before applying on the area to be repaired. **The mix will cure and harden in a few minutes**. Recommended for repairing or rebuilding all synthetic parts with few exceptions. Can also be used for the **repair of metal parts underwater and wet environments** where normal polymers would not react.

Technical data

Pot life at 20°C	20 minutes
Specific weight	2,45 g/cm ³
Polymerization time	min 1 hour - max 24 hours
Working temperature	-35°C ÷ +120°C



LEAK-3 ONLINE SEALING PASTE

Sealtek® LEAK-3 Online Sealing Paste is a **revolutionary compound able to immediately dampen or completely seal a leakage** with as little as a gesture.

Technical data

Color	Dark amber
Resistant to	Water, hydrocarbons
Max Temperature	70°C
Applications	Low pressure leakage sealing; Surfaces waterproofing



INDUSTRIAL MAINTENANCE CHEMICALS overview

It's not about how much a lubricant or a cleaner costs.
It's about how much you'll spend yearly in lubricants or cleaners
in the end to achieve the same result.

The world of chemical products for industrial applications is seemingly endless. The range spans through different combinations of efficiency, cost-effectiveness, environmental impact and safety for operators.

Sealtek® has always promoted a culture of [productive maintenance](#) through hi-tech chemical products aimed at achieving the highest degree of effectiveness while never neglecting their impact on operators and the environment.

What makes **Sealtek®** stand out in the market is its wide range of products which can drastically [decrease maintenance costs in everyday plant operations](#) while at the same time [improve the working conditions for the people involved](#). The philosophy behind our products' formulation is: the better our product is, the fewer applications will be required to achieve your goal. Fewer applications means less product being used, less pollution, less waste, less work.

Sealtek® has [focused on environmentally friendly alternatives](#) ever since its inception, decades ago, when environmental regulations were still very loose. With laws becoming increasingly stringent, the need to optimize maintenance costs is critical to offset decreasing margins in several markets. Employing clean and cost-effective maintenance products is the best way to create considerable value while reducing the global environmental impact of operations.



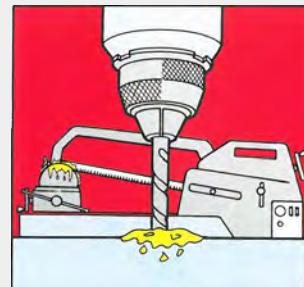
SPECIAL PRODUCTS



CUTTING OIL

Fluid with high lubricating - cooling capacity to facilitate cutting, drilling, tapping and machining in general of all ferrous and non-ferrous metals. Adheres to tool surface. No vapors.

Product Characteristics	Applications
Integral lubricant	
Cooling agent	
All-purpose	• Cutting, tapping, machining of all metals
Does not run or drip	
With EP additives	
No corrosion where applied	



LEAKS DETECTOR

New polymeric fluid for fast and safe detection of any leakage from pipes, flanges, gaskets and joints of any size. Suitable for oxygen, compressed air and all gases.

Product Characteristics	Applications
For all fluids	
Non flammable	
Leakage immediately detected	• Detection of leakage of liquid and gases from any kind of piping.
Non pollutant	
Easy to use	



METAL-FREE ANTI-SEIZE COMPOUND

Suspension of non-metallic microparticles featuring a high surface strength plus special EP additives able to withstand temperatures of up to 1800°C (3270°F), high pressures, strong chemicals and moisture.

Product Characteristics	Applications
Fully synthetic	
100% metal free	
For all metals	• Prevents self-welding, corrosion and seizing of bolts and nuts in all environments
Protects from corrosion	
Sealant	
No pitting	



METAL-FREE ANTI-SEIZE COMPOUND F.G.

Special food-grade certified lubricant with non-metallic particles able to withstand high temperatures, high pressures and chemical agents.

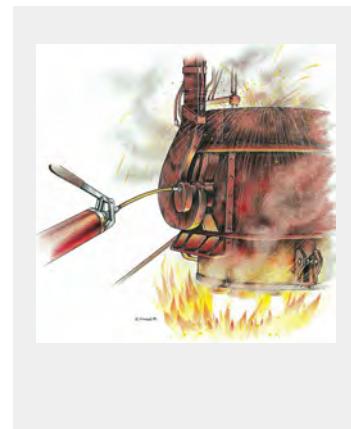
Product Characteristics	Applications
100% metal free	
For all metals	
Protects from corrosion	• Prevents self-welding and seizing of bolts, nuts and metal-to-metal bonding in food plants.
Does not carbonize	
Efficient up to 1450°C	
Meets FDA requirements	



METAL PLUS

Special anti-seize and lubricant compound containing pure foliated copper microbeads, corrosion inhibitors and EP Additives.

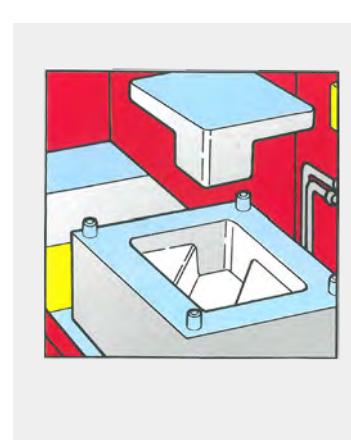
Product Characteristics	Applications
Pure foliated copper	
Up to 1100°C	
Anti-seize	
Lubricant for extreme temperatures	<ul style="list-style-type: none"> Lubricant for extreme temperature. Prevents seizing of soft metals.
Protective coating	
No dangerous nickel or other toxic components	



MOLD RELEASE AGENT

A high concentration silicone compound to facilitate release during molding of plastics, rubber and other synthetic materials. Keeps waste to a minimum, improves surface finish and reduces duration of production.

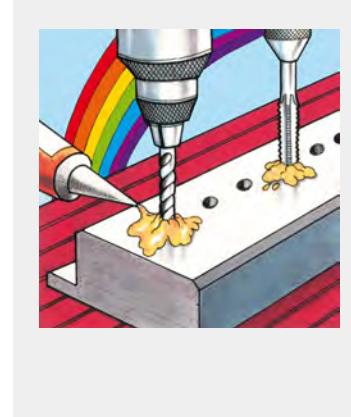
Product Characteristics	Applications
Higher number of releases	
Protects steel molds	
Improved finish	
Less waste	
Increases production	
High active agent concentration	



ULTRACUT

Totally synthetic fluid for cutting, drilling, and tapping of ferrous metals, stainless steel and alloys. Completely free of toxic solvents, environmentally friendly and releasing no noxious vapors. Biodegradable and safe. Highly efficient and reliable.

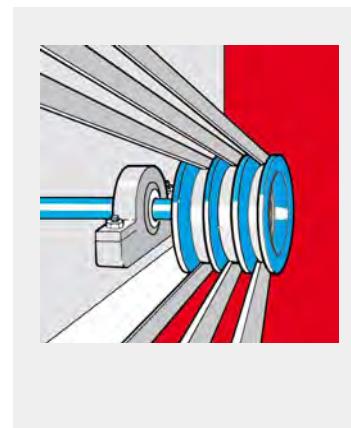
Product Characteristics	Applications
Not dangerous	
Very effective	
Not flammable	
No smokes	
For all metals	
Safe for workers	



ULTRAGRIP

Prevents driving belts of any form or material from slipping. Keeps tension constant, protects against cracking and hardening, does not stain or form any deposit or lump.

Product Characteristics	Applications
Prevents slipping	
Increases traction capacity	
Keeps tension constant	
Protects against ageing	
Water-repellent	
For all belt types	



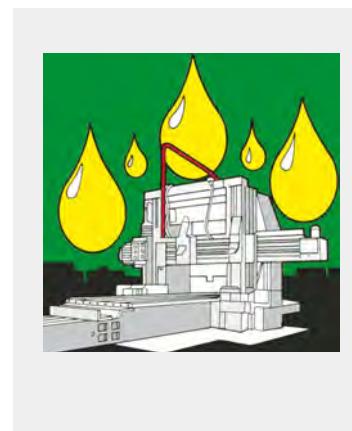
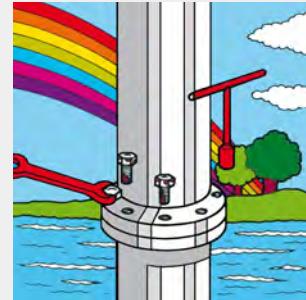
LUBRICANTS



ULTRASOL

Penetrating fluid with a high solvent and loosening capability. Quickly frees rusted and oxidized nuts, bolts and other mechanical parts. Leaves a protective film after treatment.

Product Characteristics	Applications
Fast loosening power	
Penetrates in depth	
High speed action	<ul style="list-style-type: none">Rust solvent to loosen bolts, nuts and other blocked metal parts
Acid-free	
Protective and corrosion-proof	
Food-grade version available	



DETERGENT AND LUBRICATING OIL

Light, pure, semi-synthetic oily compound penetrating the smallest tolerances, clearing and coating surfaces with a lubricating and protective film.

Product Characteristics	Applications
Low surface tension	
Penetrates the smallest tolerances	
Cleansing action	<ul style="list-style-type: none">Multi-purpose fluid for all industrial light and clean lubrication.
Excellent lubricant	
Contains EP additives	
Inhibits corrosion	



DRIVING CHAIN LUBRICANT

Deeply penetrates and lubricates pins and bushings of any size on driving chains, even if taken to extreme loads. Inhibits corrosion, protects against moisture, makes running smoother. Also ideal for greasing metal ropes.

Product Characteristics	Applications
Low surface tension	
Does not thicken	
Protects against corrosion	<ul style="list-style-type: none">Lubrication of all kinds of driving chains.
Prolonged action in time	
Contains EP additives	
Two-steps treatment	



H.T. LUBRICANT GREASE

Polyvalent lubricant grease for high temperatures. Effectively resistant to oxidation, heavy loads, high and low speeds. No drop point. Contains corrosion inhibitors.

Product Characteristics	Applications
Extreme load resistant	
Effective from -25°C to 220°C	
Contains EP additives	<ul style="list-style-type: none">Lubricant grease for high temperature applications
Oxidation proof	
Stabilized against corrosion	
Inhibits corrosion	

H.T. MOLY SYNTHETIC LUBRICANT

Totally synthetic, leaves no carbon residue or ash. Lubricates at extremely high temperatures (840°F) thanks to its content of molybdenum disulphide. High pressure resistant. Powerful cleansing action.

Product Characteristics

Contains molybdenum disulphide

Efficient at -35C ÷ +450°C

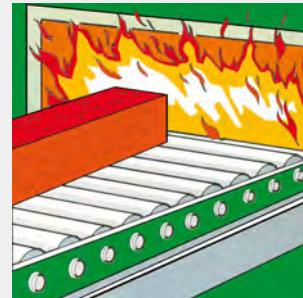
Leaves no residual matter

Performs a cleansing action

Contains EP additives

Applications

- Extreme temperature lubrication; dry lubrication even at highest temperatures.



MOLY PLUS

Lubricant, protective and anti-seize compound based on molybdenum disulphide, containing special EP additives and synthetic polymers. Makes assembling and dismantling of machinery parts easier, lubricates and provides long lasting protection.

Product Characteristics

100% metal-free

Up to +450°C

In compliance with MIL-M-7866 A-B

Highly lubricating power

Anti-seize

Protective

Applications

- All metal-to-metal connections.
- Avoids seizing and corrosion



PTFE COATING

Dry, clean, pure PTFE coating. Adheres strongly to the substrate. Minimizes friction on any porous and non-porous surface. Resistant to water and strong chemicals. Easy to apply.

Product Characteristics

Abrasion proof

Minimizes friction

Clean and dry

For all surfaces

Excellent releasing agent

Applications

- Dry and clean release agent
- Improving friction properties in hoppers, chutes and sliding surfaces



PTFE WHITE GREASE COMPOUND

A mixture of extra-pure refined mineral grease, non-toxic synthetic greases and micronized PTFE. Resistant to water, steam and acid vapor. Does not harden or drip.

Product Characteristics

100% non toxic

Does not harden

Semi-synthetic

High temperature resistant

Odorless and tasteless

Does not stain

Applications

- For the accurate lubrication of moving parts in the food, pharmaceutical and textile industries.

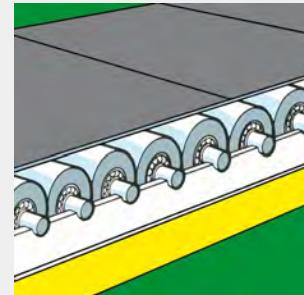




SILICONE LUBRICANT

Highly concentrate silicone fluid. Water-proofing and releasing agent. Does not stain or dirt. Works efficiently at extreme temperatures.

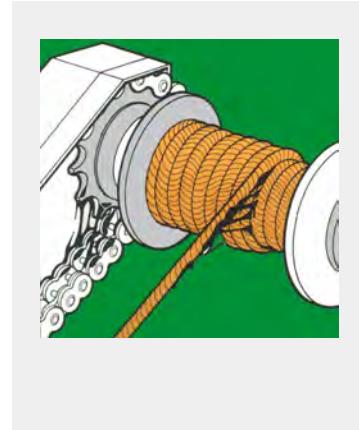
Product Characteristics	Applications
High percentage of pure silicone	
Lubricates and protects	
Waterproof and water repellent	<ul style="list-style-type: none"> Lubrication of plastic, rubber and sundry synthetic parts.
Excellent releasing agent	
Non-toxic and safe	
Effective from -40°C to +220°C	



SYNTHETIC LUBRICANT

Completely synthetic oil. Leaves no carbon or ash deposit. Lubricates at extremely high temperatures and in heavy conditions. Resistant to extreme pressure. Powerful cleansing action.

Product Characteristics	Applications
Contains synthetic EP additives	
Effective -35°C ÷ +250°C	
Cleansing action	<ul style="list-style-type: none"> Lubrication at high temperatures and high pressures, when required in large volume.
No residual matter left	
Universal	
Cost-effective	



ULTRAFLEX

Surface lubricant for chain drives, wide rope and gears. Long lasting lubrication and protection with enhanced adhesive properties and EP additives. Moisture resistant, reduces noise.

Product Characteristics	Applications
Fluid lubricant with EP additives	
Adhesive	
Anti-corrosive protection	<ul style="list-style-type: none"> Lubrication of chain drives, wide ropes and gears.
Water repellent	<ul style="list-style-type: none"> Especially suitable for lubricating railroad switches plates.
Resistant to chemical vapors	
Easy to apply	



COLD GALVANIZING COMPOUND

Quick and safe galvanizing of ferrous metals. No chalking or scaling. Long term resilience. Available in two versions. Easy to apply.

Product Characteristics	Applications
Electrochemical galvanizing	
Excellent base	
Ideal for touching-up	<ul style="list-style-type: none"> Long term galvanic coating for all ferrous metals.
Prevents galvanic corrosion	
Temperature resistance up to 120°C	
Flexible	

HEAVY DUTY RUST GUARD

Protects against corrosion, rust and oxidation without having to paint. Forms an elastic, waterproof and self-sealing film that needs no particular surface treatment prior to application.

Product Characteristics

Medium term protection: 2 years and more

Easy to apply and remove

No specific surface treatment required

Waxy consistency

Clear and amber color

Complies with MIL C-16173D specs

Applications

- Coating and protection of metal parts subject to rust and oxidation.



MOISTURE SHIELD

Creates a semi-oily, extra-thin film. Removes moisture, prevents the formation of rust and corrosion, penetrates the smallest recesses. Easy to remove.

Product Characteristics

Low surface stress

Penetrates and lubricates

Short-term anti-corrosive

High dielectric strength

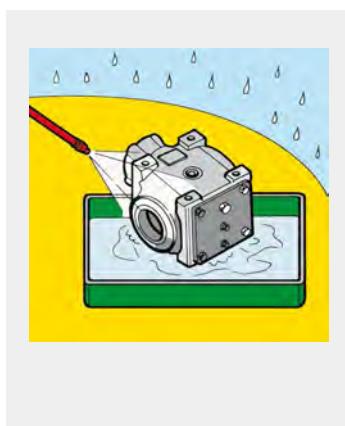
Complies with mil. C-16173D specs.

Level 3

Easy to remove if necessary

Applications

- Coating and protection of surfaces against moisture.



RUST TRANSFORMER

Able to turn iron oxide (rust) into inert salt through an electrochemical process. Creates an ideal base for adhesion of the undercoat, eliminating the need to employ costly and dangerous methods such as sandblasting, scraping and treatment with strong acids.

Product Characteristics

Transforms rust in an inert substance

Extremely large covering capacity

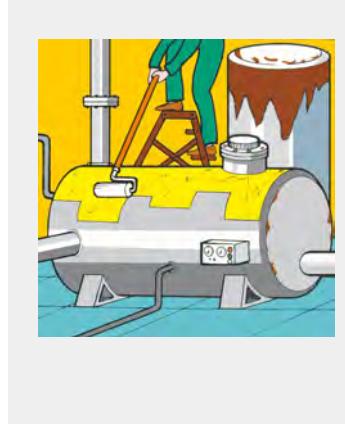
No need to rinse

Easy to apply

Does not contaminate the atmosphere

Applications

- Quick and easy treatment of rusty and oxidized metal parts



ULTRASTEEL

Protective coating made of pure stainless steel colloid, creating a layer with high chemical, mechanical and heat resistance over all types of metals and other materials. Avoids corrosion and scaling in all aggressive environments.

Product Characteristics

Long term protection

Temperatures up to 500°C

No chalking or flaking

Chemicals resistant

Easy to apply

Can be applied everywhere

Applications

- Long term protection against corrosion and scaling in aggressive and high temperature applications



CLEANERS



CARBON AND VARNISH SOLVENT REMOVER

High decarbonizing action solvent. Resolves carbon links. Solubilizes sludge, pitch, old stubborn paint. Phenol-free. No bad odors. Can be diluted and has a low evaporation rate. Nonflammable.

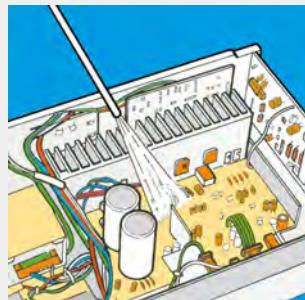
Product Characteristics	Applications
Phenol-free	
Non-corrosive	
Very slow evaporation	<ul style="list-style-type: none">Removal of combustion deposits, greasy substances and carbon sludge stuck inside engines, carburetors, valves and electric motors casings.
Can be diluted	
Cost-effective	



ELECTRIC CONTACT CLEANER

Quick evaporation synthetic detergent for cleaning electric and electronic equipment. High purity, leaves no trace, non-flammable. Harmless and non-toxic.

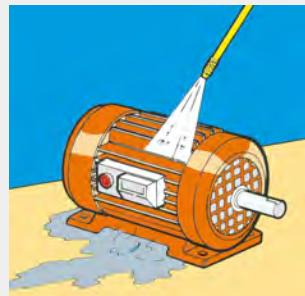
Product Characteristics	Applications
Generating no flame	
Optimum dielectric resistance	<ul style="list-style-type: none">Removal of grease, dirt and dust from electric and electronic equipment
Leaves no residue	
Fast evaporation	
Effective and penetrating	



ELECTRIC MOTORS CLEANER

Degreasing agent with high dielectric resistance for cleaning electric motors and other equipment. Non-conductive and non-corrosive. Leaves no greasy residue and contains no carbon tetrachloride or other toxic substances. Almost odor-free.

Product Characteristics	Applications
Low conductivity	
Inexpensive	
Safe for user	
Fast cleaning action	<ul style="list-style-type: none">Cleaning and degreasing of electric motors, generators, air conditioners, fans, transformers and tools.
High flash point	
Environment friendly	



INDUSTRIAL AND NAVAL SOLVENT

Highly concentrated alkaline detergent. Effective on most inorganic dirt. Toxic solvent free. Non-flammable. Slight anticorrosion effect. Low-foaming, suitable for marine industry.

Product Characteristics	Applications
Extremely versatile	
Toxic solvent free	
Antirust action	<ul style="list-style-type: none">Fast and effective cleaning of industrial machinery, factory floor, pumps, ducts, ships bilges, superstructures
Non-corrosive	
Quick cleansing action	
Very cost-effective	



INDUSTRIAL DETERGENT DEGREASER

Solvent cleaner for thick dirty deposits, quickly dissolving and removing sludge, tar and grease. Completely odorless. High flash point (higher than 80°C / 176°F). Low evaporation coefficient.

Product Characteristics

Quick working

Completely odorless

Slow evaporation

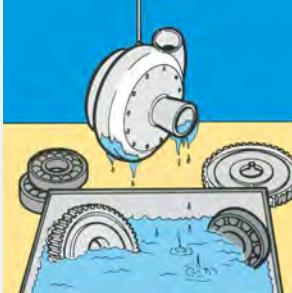
Does not pollute

High flash point

Cost-effective

Applications

- Maintenance and cleaning of all machinery and equipment in the industrial and marine sector.



MULTI PURPOSE CLEANER

Detergent and degreaser fluid for metal parts. Quickly dispatches even the thickest grease and sludge without corroding metal. Leaves a thin protective film afterwards. Very cost-effective and user-friendly, environmentally safe.

Product Characteristics

Non-pollutant

Very effective

Low volatility

No corrosion induced

High flash point

Environmentally friendly

Applications

- Low cost versatile solvent to replace chlorinated hydrocarbons.



PHOSPHATE-FREE DETERGENT CLEANER

Highly concentrated alkaline detergent specifically for cleaning even the most stubborn organic dirt: contains no polluting phosphates, toxic solvents or dangerous ingredients. Biodegradable and versatile.

Product Characteristics

Biodegradable

Concentrated

Effective on organic dirt

Versatile

Solvent-free

Cost-effective

Applications

- Safe and environmental-friendly cleaner for organic dirt in civil (hospitals, schools, restaurants, supermarkets) and industrial (food, livestock, marine) sector.



SAFETY CLEANER AND SOLVENT

Quick degreaser and detergent for electrical and mechanical equipment. Contains corrosion inhibitors. Fast evaporation, high dielectric force. Leaves no deposit.

Product Characteristics

High flash point

Fast evaporation

High TLV

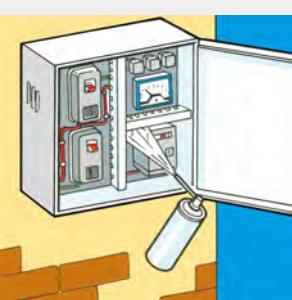
Stabilized

Non-corrosive

High dielectric resistance

Applications

- Cleaning of electrical equipment, motors, switches, relays. Replacement of oil-based products for cold and thorough cleaning of mechanical equipment.



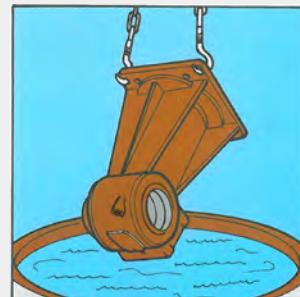
CLEANERS



SUPER RUST REMOVER with corrosion inhibitor

Fast rust, corrosion and scale dissolving agent. Removes deeply imbedded oxidation from all ferrous metal, temporarily granting them protection against corrosion. Also effective against organic and inorganic dirt.

Product Characteristics	Applications
Removes rust	
Gives temporary protection	
Effective cleansing action	
Does not corrode metals	
Diluted with water	
Cost-effective	



ULTRACLEAN TYPE C - TYPE D

Detergent, degreasing and deodorizing fluid suitable for all cleaning operations of industrial and civil activity. Vegetal base, pleasantly orange-scented, totally biodegradable, made of natural and eco-compatible substances but extremely effective and powerful.

Product Characteristics	Applications
Vegetal base	
Detergent and degreaser	
100% biodegradable	
No foam	
Safe for workers and environment	
Phosphate free	



Highly advanced metal or ceramic compounds, developed for the **repair, reconstruction or protection of equipment or metal parts**, damaged by **corrosion, erosion, chemical attack or abrasion**.

Manufactured with a two components modified epichlorohydrin epoxy resin, incorporating metallic, mineral and ceramic fillers, UMS provides easy, fast, reliable and impressive results in all maintenance applications.

Damaged metal surfaces can be fully repaired or reconstructed, the repaired part achieving an even better resistance with **merely one coat of polymeric compound**, which due to its insulating capability eliminates possible future corrosion or pitting.



ULTRA METAL SYSTEM



PHYSICAL PROPERTIES

TYPE	COMPOSITION	COLOR AFTER CURING	MIXING RATIO				POT LIFE AT 20°C (min.)	SPECIFIC WEIGHT OF MIXT. g/cm³	TEMPERATURE RESISTANCE FROM/TO	CURING TIMES (in hours)	
			% weight		% volume					handling strength	final hardness
AL-P	80% aluminum - 20% resin	Aluminium	100	20	4,5	1	60	1,6	-35°C; +120°C	16	24
AL-L	80% aluminum - 20% resin	Aluminium	100	14	4	1	60	1,45	-35°C; +120°C	16	24
TI-P	80% titanium - 20% resin	Grey	100	33	-	-	120	1,61	-35°C; +200°C briefly +260°C	-	48
ST-HT	80% steel putty - 20% resin	Dark grey	100	100	1	1,3	30	2,34	-35°C; +200°C briefly +280°C	12	24
FAST	80% steel - 20% resin	Dark grey	100	13	2,5	1	5	2,6	-35°C; +90°C	3	6
FLEX-Y	100% polyurethanic resin	Colorless	-	-	-	-	depend on mixture min. 30'	0,97	-35°C; +95°C	Depending on mixing ratio	
CE - WRW	80% zirconium oxide - 20% resin	White	100	33	-	-		1,59	-35°C; +200°C briefly +260°C		
CE-P	80% ceramic/steel - 20% resin	Dark grey	100	25	3,5	1	45	1,67	-35°C; +120°C	16	24
CE-L	80% ceramic/steel - 20% resin	Black	100	15	2,8	1	45	2,3	-35°C; +120°C	16	24
CE-SR	80% ceramic/steel - 20% resin	Blue	100	15	3,5	1	40	1,8	-35°C; +180°C	16	24
ST-P	80% steel - 20% resin	Dark grey	100	10	4	1	60	2,9	-35°C; +120°C	16	24
ST-L	80% steel - 20% resin	Dark grey	100	7	4	1	60	2,75	-35°C; +120°C	16	24
ST-HD	50% steel - 50% resin	Dark-grey	-	-	-	-	5-10	-	-35°C; +120°C	0,5	24

AL-P ALUMINUM PUTTY

Aluminum putty compound for repair, rebuilding and protection of aluminum and light alloy parts. Manufactured with extra-fine aluminum powder to ensure **perfect and homogeneous dispersion** and a special resin, based on epichlorohydrin epoxy Pm ≤ 700 . For filling blowholes, for repairing and restoring injection molded parts and holding devices, for sealing and glueing.

**AL-L LIQUID ALUMINUM**

Aluminum compound in **liquid form** used in repairing and protecting aluminum and light alloy parts. Designed and recommended for making models, forms, frames, prototypes and holding devices. Used for coating special light alloy tools, holding devices in ultrasonic welding machines and for precision testing. Manufactured with **extra-fine aluminum powder** mixed with a special resin, penetrates into the **smallest tolerances and metal pores**, becoming part of the base material after curing.

**TI-P/TIW-P TITANIUM PUTTY**

Recommended for the repair and reconstruction of metal surfaces. Made of **titanium fillers and advanced link agents**, TI-P is the ideal compound when high compressive strength and chemical resistance is required. Recommended when repairing pump casings, bearings and bearing housings, driving key seats, shafts, sleeves, etc. Can be used also as a **complete anticorrosion coating** on metal components and can be easily applied on vertical surfaces.

**ST-HT STEEL PUTTY High Temperature**

Special **steel-based putty** compound, featuring an **extra high temperature resistant** resin. Particularly suitable for plant maintenance and the repair or rebuilding of pumps, valves, pipes, etc. operating in high temperatures. Often used to produce blanking and forms, repair prototypes or filling blow holes. Operates in applications at 200°C continuous and 280°C peak temperature.





FAST FAST CURING STEEL

Steel-filled compound for quick repair of metal surfaces. Its extremely short curing time allows it to be used where speed is required in maintenance or repairs of leaking pipes, engine casings, gear boxes. Due to its fast curing feature, it displays a lower physical and chemical resistance and should be [coated and reinforced](#) after curing with other SEALTEK® metal compounds.



FLEX-Y RUBBER-LIKE ADDITIVE

Special polyurethane hardener, recommended for use in conjunction with CE-P, CE-L and ST-P compounds. Will convert the usually very hard compounds into a "rubber-like" state, which can vary in consistency according to the amount added. Ideal for creating [shock absorbing surfaces](#) where their continuous impact with large size particles may damage, scratch or score them.



CHEM-L CHEMICAL RESISTANT COATING Liquid

Two component polymeric compound made of [etoxyllic resins](#) filled with silicates and stabilized with silicones.

Suitable for resurfacing, protecting or repairing iron, cement and concrete surfaces such as in pump casings, tanks and industrial floors. Can be applied and will adhere onto [wet or humid surfaces at low temperatures](#). Offers an extremely wear and chemically resistant surface which will also resist abrasion and pressure shocks as well as chemical attack.



CE-WRW ABRASION SUPER-RESISTANT PUTTY CERAMIC

Special ceramic polymeric putty made of [pure alumina](#) and [titanium dioxide](#), recommended for the protection of metal surfaces against [heavy abrasion](#) and erosion. The CE-WRW high viscosity makes it ideal for use on [vertical or overhead applications](#) as it will adhere to the treated surface and will not drip. Its [white color](#) makes it ideal for coating sensitive areas where a darker coating may present staining problems.



CE-P METAL CERAMIC PUTTY

Ceramic steel putty compound for the repair and rebuild of all metal parts subject to erosion, corrosion or abrasion attack, as well as to create wear-resistant surfaces. When correctly **mixed with the specific Flex-Y polyurethane hardener**, it will provide a flexible surface, able to **absorb shocks and vibrations** and offer outstanding performance and results.



CE-L LIQUID METAL CERAMIC

Liquid ceramic steel compound used for the repair or protection of all metal surfaces subjected to strong erosion, corrosion and abrasion. Formulated with an extremely chemical resistant resin, can be used in **rebuilding damaged parts** or to **create a wear resistant surface**. When correctly mixed with the special Flex-Y polyurethane hardener, produces a flexible surface which outperforms the original material itself. Easily applied by brush, roller or trowel.



CE-SR ABRASION SUPER-RESISTANT LIQUID CERAMIC

Brushable protection against heavy wear and abrasion, pitting or corrosion, as faced in pump casings, slide bearings, funnels, pouring gates, pipes. Used to repair and restore **worn areas on castings, valves or fan blades**, to protect foundry or casting molds or to make jigs and fixtures. Made of ceramic and filled with **high hardness zirconium oxide** resin, CE-SR features excellent mechanical strength, brushable liquid consistency and reduced curing time.



ST-P STEEL PUTTY

Steel-based putty-like compound, made of **fine steel powder**, anticorrosion additives and polymeric cross-linked resin. Designed for the repair or reconstruction of all metal parts. Particularly suitable for repairing corrosion problems, leaking tanks, pipes, castings, engine cases and machine parts, make models, forms, tools and holding devices. Successfully used on **all metals including stainless steel**. The product's high dielectric strength rejects corrosion or pitting.





ST-L LIQUID STEEL

Steel-based compound in [liquid form](#), made of [extra-fine steel powder](#), anticorrosion additives and polymeric cross-linked resin. Designed for reconstruction or protection of metal parts. Recommended especially for the production of [molds and forms](#), tools, holding devices, frames and gauges. Also suitable for filling up blowholes and micro porosities of castings. Its high dielectric strength does not allow corrosion or pitting.



ST-HD STEEL PUTTY *High Density*

Pre-dosed stick of polymeric compound made of [different metals](#) which, when cut in the desired size and molded with fingers, becomes a putty which [perfectly hardens in a few minutes](#). Suitable for repair and restoration of various metals parts. Available with steel, aluminum, copper or titanium microbeads fillers.





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