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Adhesives & Sealants Catalog



ENGINEERING **YOUR** SUCCESS.

Threadlocker and Anaerobic Retainer

Parker TL Series Anaerobic Adhesives are liquid resins free from solvents that cure (in the absence of air) when placed in contact with metallic or threaded parts.

The Anaerobic Threadlockers are available in three levels of break away torque and are distinguished by force required by disassembly and viscosity. They provide high resistance to pressure, vibration and fill 100% of gaps between parts

enhancing the locking and sealing forces. Overflow is not likely to contaminate or obstruct the application and can be easily wiped away) as long as it is exposed to air) by using oils or polar solvents.

The TL series adhesives are resistant to water, fuel, gases, oils and other chemical products. They offer a wide temperature range from -50°C to 150°C and are used primarily in applications with screws, bolts,

drop bolts, latch, pulleys, gearboxes, bushing, sleeves, bearings, valves, flanges, shafts and rotors.

** Not indicated for systems with oxygen, chlorine or highly oxidant products.*

TL22 - Threadlocker • Low Torque



Available in bottles of:
10g (blister), 50g and 250g.

Specially formulated for applications that require low resistance to disassembly.

Allow disassembly using hand tools.

Applications

Frequent disassembly, small diameter screws, flat head bolts locking, adjustment and calibration screws.

TL55 - Threadlocker • Medium Torque



Available in bottles of:
10g (blister), 50g and 250g.

Ideal for applications that require medium resistance to disassembly. Allow disassembly using hand tools.

Applications

General use. Commonly used for pumps, compressors, gearboxes, machines and tooling.

TL83/TL86 - Threadlocker • High Torque



Available in bottles of:
10g (blister), 50g and 250g.

Ideal for permanent assembly and applications that require high resistance to disassembly. Special tools are required for disassembly.

Applications

Locking of large diameter stud bolts or screws.

Ideal for axle shafts, parts from vibratory machines, heavy equipment and security items.

TL81 - Threadlocker • Capillarity



Available in bottles of:
50g.

Sealing porosities in welds and porous metals. Also indicated for pre-assembled pieces. High penetration by capillarity action and permanent assembly. Protect assembly against oxidation and corrosion.

Applications

Locking adjustment screws, pre-assembled items and other mounted parts.

RC81/RC84/RC83 - Retainer • High Resistance



Available in bottles of:
10g (blister), 50g and 250g.

Liquid Anaerobic Retainers ideal for sliding assemblies or interference parts, lubricating parts to facilitate incase.

Substitute precision machining, allowing larger tolerances.

Applications

Retain cylindrical parts such as bearings, rotors, axle shafts, gears, sleeves, bushing and other cylindrical parts that require high dynamical forces.

Instant Adhesives

Based on cyanoacrylate, Parker's IA Series is made up of single-component adhesives available with a low, medium and high viscosity. All three types have fast setting time, offer high tensile strength and do not require pre-mixing. These general purpose adhesives are used in various applications and bond to a variety of substrates such as metals, rubbers, ceramics, leather,

wood and most plastics. They take only a few seconds to bond and are highly resistant to disassembly. IA Series Adhesives are easy to use and need only be placed on one surface to allow for almost immediate handling of bonded parts. Cure occurs at room temperature and in most instances does not require any further activator or heat to bond.

These adhesives are extremely easy to apply and can be used in manual, semiautomatic or automatic applications.

IA01 - Cyanoacrylate • Metals



Available in bottles of:
20g (blister), 50g and 100g.

Adhesive specially formulated to bond metals with rubber and rigid surfaces.

Bonds in seconds to practically any surfaces in room temperature.

Applications

Metal-rubber and plastics, among others.

IA04 - Cyanoacrylate • General Purpose



Available in bottles of:
20g (blister), 50g and 100g.

Adhesive used for general purpose to obtain fast cure.

Applications

Metals, rubbers and some types of plastics, among others.

IA06 - Cyanoacrylate • Elastomers



Available in bottles of:
20g (blister), 50g and 100g.

General purpose adhesive formulated to obtain fast bonding to porous and flexible materials. Bonds to any surfaces with high performance.

Applications

Bonds natural and synthetic rubber, leather, wood and ceramic, among others.

Activator

ST01 - Cyanoacrylate

It is a sealing promoter developed to be used with cyanoacrylate adhesives when the substrate is inert or to be used with Polyolefin, such as PE, PP, Polyacetal and EPDM rubber. Colorless product, with viscosity from 2 to 5 mPas.m and density from 0.715 to 0.730 g/cm³, fast dry and long duration over the parts.



ST02 - Anaerobic

It is a sealing promoter developed to be used with cyanoacrylate adhesives when the substrate is inert or to be used with Polyolefin, such as PE, PP, Polyacetal and EPDM rubber. Colorless product, with viscosity from 2 to 5 mPas.m and density from 0.715 to 0.730 g/cm³, fast dry and long duration over the parts.

Available in bottles of:
100g (Spray).

Anaerobic Gasket Makers

GG22/GG23/GG25 • Gasketing



Available in bottles of:
50g

It is typically used as a form-in-place gasket on rigid flanged connections, such as gearboxes engine casings, pumps, cover shafts, thermostats, compressors, transmission housings and axle covers. When applied, these compounds quickly cure in the absence of air, while excess product will remain liquid. Additionally, they are compatible with oils and most hydraulic fluids.

Applications

Recommended for sealing small gap flange applications. It is typically used for applications in the chemical processing, petroleum refining, pulp/paper, waste treatment, textile, utilities/power generation, marine, automotive, industrial equipment, fluid power systems, bulk gas compression and transport industries.

GT21/GT24 • Thread Sealants



Available in bottles of:
50g

High viscosity liquid or paste generally used to seal or secure between threaded flange or tube applications. It works like a liquid gasket, eliminating sealing elements such as o-rings and tapes. When applied, these compounds quickly cure in the absence of air, while excess product will remain liquid. Additionally, they are compatible with oils and most hydraulic fluids.

Applications

Recommended for sealing metal tapered pipe threads and fittings up to 2 inches (5 cm). It is typically used for applications in the chemical processing, petroleum refining, pulp/paper, waste treatment, textile, utilities/power generation, marine, automotive, industrial equipment, fluid power systems, bulk gas compression and transport industries.

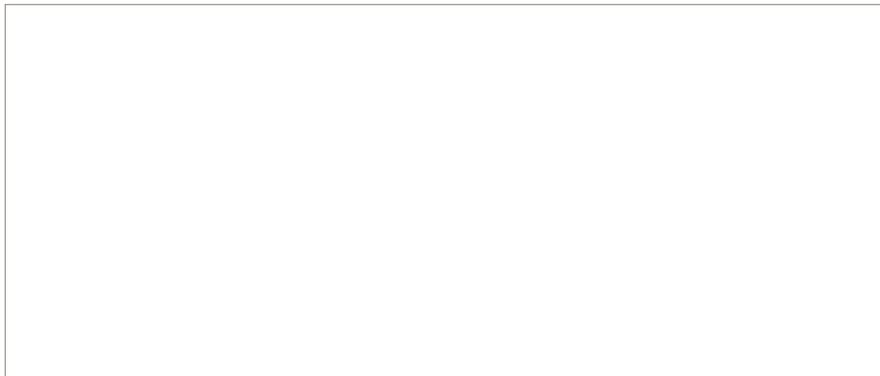
Anaerobic Adhesives (Threadlockers)										
Parker Global	Torque	Color1	Working Temp. (°F)	Viscosity (mPas)	Gap Fill (mm)	Breakaway Torque2 (N.m)	Prevail Torque2 (N.m)	Initial Setting Time (minutes)	Total Setting Time (hours)	Activator
TL22	Low	Violet	-58 to 300	200 to 500	0.12	6 to 15	1 to 6	10 to 20	24	ST02
TL55	Medium	Blue	-58 to 300	1,500 to 2,000	0.12	15 to 30	8 to 14	5 to 15	24	ST02
TL81	High	Green	-58 to 390	8 to 12	0.07	30 to 70	18 to 40	10 to 30	24	ST02
TL83	High	Red	-58 to 300	500 to 800	0.20	30 to 70	18 to 40	3 to 20	24	ST02
TL86	High	Red	-58 to 300	6,000 to 9,000	0.30	30 to 70	18 to 40	10 to 20	24	ST02
Anaerobic Adhesives (Retainers)										
Parker Global	Torque	Color1	Working Temp. (°F)	Viscosity (mPas)	Gap Fill (mm)	Breakaway Torque2 (N.m)	Prevail Torque2 (N.m)	Initial Setting Time (minutes)	Total Setting Time (hours)	Activator
RC81	High	Green	-58 to 390	100 to 150	0.12	30 to 70	18 to 40	3 to 15	24	ST02
RC83	High	Green	-58 to 300	500 to 800	0.22	30 to 70	18 to 40	3 to 15	24	ST02
RC84	High	Green	-58 to 300	1,800 to 2,400	0.25	30 to 70	18 to 40	3 to 15	24	ST02
Instant Adhesives (Cyanoacrylate)										
Parker Global	Color1	Working Temp. (°F)	Viscosity (mPas)	Gap Fill (mm)	Tensile Strength4 (kgf/cm2)	Initial Setting Time (minutes)	Total Setting Time (hours)	Activator		
IA01	Clear	-22 to 176	2 to 10	0.05	150 to 300	1 to 20	24	ST01		
IA04	Clear	-22 to 176	40 to 60	0.10	150 to 300	1 to 20	24	ST01		
IA06	Clear	-22 to 176	90 to 110	0.15	150 to 300	1 to 20	24	ST01		
Anaerobic Gasket Makers										
Parker Global	Color1	Working Temp. (°F)	Viscosity (mPas)	Gap Fill (mm)	Breakaway Torque2 (N.m)	Prevail Torque2 (N.m)	Initial Setting Time (minutes)	Total Setting Time (hours)	Activator	
GT21	Green	-58 to 300	19,000 to 60,000	0.8	6 to 15	1 to 6	20 to 40	24	ST02	
GG22	Violet	-58 to 300	275,000 to 950,000	0.8	6 to 15	1 to 6	10 to 30	24	ST02	
GG23	Orange	-58 to 300	30,000 to 100,000	0.8	15 to 30	8 to 14	5 to 20	24	ST02	
GT24	White	-58 to 392	540,000	0.5	6 to 15	1 to 6	10 to 30	24	ST02	
GG25	Red	-58 to 300	800,000 to 3,750,000	0.8	6 to 15	1 to 6	10 to 30	24	ST02	

1. Setting time: 24th @ 22°C, test body: M10 stainless screw, test according ISO 10964

2. The setting time is strongly influenced by substrate, room temperature and presence of activators. Above data regard to substrate carbon steel flushed in temperature of 22° C without use of activators. Referring to cyanoacrylate, the test is conducted in NBR.

3. When the products are colorless, they can be lightly yellowed, depending on product storage and fabrication date, without representing any problems on application, since observed validity printed on the bottle.

4. ASTM D1002, cured 24th @ 22°C flushed steel plaques.



Your local Authorized Parker Distributor

ORD 5797 12/08 CE



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