

13 SEALANTS & O-RINGS

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PURLOGIC® XPRESS



Art. No. 891.1524

For professional application of 1-component gun foams

- Low intrinsic weight
- Easy, effortless handling
- Ergonomic handle shape
- Fits securely and comfortably in your hand
- Optimized sealing system
- A seal combination eliminates the need for readjustment of the needle seal
- Dosable outflow of foam
- Foam outflow quantity is variable adjustable - clean spraying pattern

Application:

A polyurethane foam can should always be screwed onto the PURlogic guns. The gun should be cleaned with PURlogic Clean (**Art. No. 892.160**) at regular intervals. Please read instructions carefully.

Note:

Suitable for use with Würth PURlogic TOP foam (Art. No. 892.142). When used with other polyurethane foam cans, the function should be tested beforehand.

PURLOGIC® PREMIUM PRESS GUN



Art. No. 891.152600

High-quality, PTFE coated metal gun for applying 1-component expanding foams

New, Improved & Completely Redesigned

- Comfortable, rubberised handle for firm hand grip
- Rugged gun body with PTFE-coated needle and threaded basket.
- Foam dispensing quantity can be adjusted for a clean spraying pattern
- Optimized sealing system
- Dosable outflow of foam
- Trusted high-quality foam gun
- Unique Würth design
- Lock button
- Ideal for slim joints and hard to reach areas
- Ergonomic design
- Long service life

Extension Nozzle: Art. No. 891.152601

Pack of 50 pieces



PURLOGIC® TOP



1K-Premium Foam for use with an extrusion gun

Small can, large yield

Foam yield up to 50 litres, freely foaming from a user-friendly, handy can.

Adapted to winter

Can be used even at environmental and subsurface temperatures of -5 °C (23 °F)

Tested product quality

Seam sound damping

Reduces disturbance from noise.

RST, w = 59 dB according to DIN 52210, tested by the Rosenheim Institute for Manufacturing Technology.

Heat conductivity

Reduces heat loss by 0.039 W/(mK) according to DIN 52612, as tested by the Materials Testing Institute of Hannover.

Air permeability

Prevents drafts. Tested according to EN 1026 by the Rosenheim Institute for Manufacturing Technology.

Water vapour permeability

Tested according to DIN EN ISO 12572, by the Rosenheim Institute for Manufacturing Technology.

Energy savings according to the Energy Saving Regulations

9 % savings in heating costs, as tested by the Fraunhofer Institute, according to DIN 18055 / EN204.

General Construction Site Inspection Test Certificate

Corresponding to Construction Material Class B 2, according to DIN 4102, Part 1, tested by the Materials Testing Institute of Hannover.

Other advantages:

- Fine-celled and even foam structure
- High dispensing speed
- High residual utilization
- Resistant to aging
- The "light ivory" colour is especially suited for the restoration of old buildings

Areas of application:

High-grade, secure sealer, filler and insulator for window joints, window sill gaps, pipe ducts, splices, wall joints, plaster cracks and cavities. Optical application verification (made possible by) the concrete grey colour.

Note:

Adheres to concrete, stone, hard PVC, metal and wood.

No adherence to polyethylene, silicones, PTFE and grease.

Contents	Colour	Art. No.
475 g	Concrete Grey	892.142

Technical Data	
Apparent density*	12 kg/m³
Cell size*	Medium fine
Non-adhering after about*	6 min.
Can be cut after approx.*	14 min.
Processing temperature*	5 °C to 25 °C (41 °F to 77 °F)
Processing temperature of the environment and subsurface	-5 °C (23 °F)
Tensile strength according to DIN 53 430	ca. 8 N/cm²
Elongation at rupture according to DIN 53 430	ca. 18 %
Shearing resistance according to DIN 53 427	ca. 3 N/cm²
Compressive stress at 10 % compression strain according to DIN 53 421	ca. 2 N/cm²
Assessed seam sound damping measurement	RST,w = 59 dB
Water absorption according to DIN 53 433	ca. 0,3 Vol.-%
Thermal conductivity	0,039 W/mK
Temperature resistance	-40°C to +80°C (-40°F to 176°F)
Shelf life	12 months

PURLOGIC® CLEAN



For the removal of fresh PU foam

Highly effective

Dissolves all fresh foam contaminations quickly and easily

Optimized for use with PU foam guns

The 500-ml can is particularly well suited for cleaning of Würth PURlogic foam guns (Art. No. 891.1522)

Further advantages: Also suitable for many guns by competitors. The 500 mL can comes with an additional spray head for exterior cleaning of foam guns and other surfaces

Note: Cleans and removes fresh excess PU foam from wood, metals and many types of garments. Not suitable for fully cured PU foam residue. May etch surfaces such as paintwork and plastics. Textiles may become lighter in colour or etched.

Contents	Colour	Art. No.
390 g	Transparent	892.160

PURLOGIC® EASY



1-component installation foam for easy application.

Small can, high yield (high expansion)

The user-friendly, handy can yields up to 35 litres of foam.

Winter-proof

Usable at surface and ambient temperatures as low as -5°C (23°F).

Certified product characteristics

Suitable for wells and civil engineering applications

Suitable as foaming adhesive for joining and filling of joints between well elements according to DIN 4034, Part 2, certified by State Trade Authority Bavaria.

Joint sound insulation

Reduces noise according to DIN 52210, as tested by ift Rosenheim.

Thermal conductivity

Reduces heat loss at 0.033 W/(mK) according to DIN 52612, as tested by MPA Hanover.

Air permeability

Prevents air drafts, as tested according to EN 1026 by ift Rosenheim.

Water vapour permeability

Tested according to DIN EN ISO 1257 by ift Rosenheim.

Energy saving according to EnEV

Heating costs savings of 9%, in comparison to stuffing materials, as tested by Fraunhofer Institute following DIN 18055/EN 204.

General approval certificate by building authority

Conforms with building material class B2 according to DIN 4102, Part 1, as tested by MPA Hanover.

Other advantages:

- Fine cellular and even foam structure
- Low amount of residue left in can
- Resistant to aging

Areas of application:

High-quality and secure insulating and filling of hollow spaces such as pipe lead-throughs, joints, wall connections and masonry openings. Sealing and gluing of well rings and molded concrete parts. Visual proof of installation by ice blue colour of the foam.

Note:

Adheres to concrete, stone, hard PVC, metal and wood.
No adherence to polyethylene, silicones, PTFE and grease.

Contents	Colour	Art. No.
553 g	Ice Blue	892.143

Technical Data	
Apparent density *	18 kg/m ³
Cellularity*	medium fine
Non-tacky after approx.*	9 min.
Can be cut after approx.*	15 min
Processing temperature for can	5°C to 25°C (41°F to 77°F)
Processing temperature for surroundings and surface	-5°C (23°F)
Tensile strength according to DIN 53 430	approx. 6.9 N/cm^2
Elongation at tear following DIN 53430	20.5 %
Shearing strength following DIN 53427	approx. 3.2 N/cm^2
Compressive strain at 10% compression following DIN 53421	approx. 1.9 N/cm^2
Water absorption according to DIN 53433	approx. 0.3 Vol.-%
Thermal conductivity	0.038 W/mK
Temperature stability	-40°C to $+80^{\circ}\text{C}$ (-40°F to $+176^{\circ}\text{F}$)
Shelf life	12 months

PURLOGIC® FLEX



Recommended by experts and leading window manufacturers!

1-component premium foam for elastic joint insulation

Extremely high elasticity

- Highly flexible, and therefore clearly prevents danger of foam tear-off. (approx. 3X flexibility compared to commonly available PU foams)
- Prevents heat bridges

Suitable for use in winter

- Down to -15°C application-surface and ambient temperature
- Down to 0°C can temperature
- Still elastic even at temperatures below freezing

Tried-and-tested product features*

- Component test
- Joint sound insulation
- Thermal conductivity
- Air-permeability
- Water vapour permeability
- Tested energy savings
- General construction test certificate.
- Emicode-certified



Additional advantages:

- Fine-celled, uniform foam structure
- Resistant to aging (not UV-resistant)
- High-degree of residual emptying



Areas of use:

For insulating and filling window connections, pipe ducts, wall openings, wall connections, hollow spaces, cooling carts, walk-in refrigerators, roof finishing, roller shutter boxes and window sills.

Notes:

Adheres on concrete, stone, hard PVC, metal and wood. Does not adhere to polyethylene, silicone, PTFE and grease. PURLOGIC® FLEX can be applied with PURLOGIC® Xpress and PURLOGIC® COMBIpress. A primer should be applied in the case of porous and absorbent surfaces. Unhardened foam may not come into contact with wet adhesive!

Colour	Content	Art. No.	P. Qty.
Pebble Gray	450 g	892.1428	1

Technical Data:	
Unfinished density	Approx. 24 kg/m³
Non-sticky surface*	Approx. 6 minutes
Cuttable*	Approx. 20 minutes
Application-surface and ambient temperature	-15°C to +25°C
Can temperature	Up to 0°C
Released-foam yield*	Up to 18 liters
Construction material class according to DIN 4102 Part 1	B2
Shelf life	12 months

* Measured at 23°C and 50% humidity

Additional articles:

PURLOGIC® Xpress/COMBIpress
Art. No. 891.1524/891.1522

PURLOGIC® Clean
Art. No. 892.160

Würth Pump Spray Bottle
Art. No. 891.501



Due to building movements and longitudinal expansions in case of temperature fluctuations, increasing foam tear-off results with commonly available PU foam, especially with dark-colored windows.

- Danger of heat bridges resulting.
- The leaky building connection joint resulting from this can be made visible with thermography – see red areas.

With this information we want to advise you to the best of our knowledge based on our tests and experience. Preliminary testing required! For further information, see the Technical Data Sheet.

ADHESIVE NEOPRENE SPONGE WEATHER-STRIP



Features:

- Light weight closed cell sponge material
- Peel-back for easy application
- Permanent weatherproof seal
- No cement or tacking required
- Reduces wind noise

Applications:

- Surface must be clean and dry before application
- Automobiles and boats
- Any place where a weatherproof seal is required: trunks, sunroofs, firewalls

Thickness	Width (inches)	Roll Size (feet)	Art. No.
5/16	5/8	10	894.4807
5/32			894.4802
5/32	3/8	50	894.4850
	1/2		894.4851
	3/4		894.4852
5/16	1/2		894.4855
	3/4		894.4856
	1		894.4857



WEATHERSTRIPPING ADHESIVE



Art. No. 893.100095 142 mL

An adhesive for rubber profiles on rough, pretreated, or painted metal surfaces

- Will not harm fresh paint
- Temperature resistant up to approximately 100 °C
- Must be applied to both surfaces to be bonded
- Let both surfaces skin before bonding to ensure proper adhesion
- Ideal for sunroof rubber and trim
- Ideal for door rubber, to body sealing applications
- Excess glue can be removed easily with W-SOL Residue Remover, Art. No. 890.113/890.1130
- Colour: Black

WEATHERSTRIPPING REPAIR COMPOUND



Art. No. 893.850385 150 mL

A single part compound designed to provide a quick, permanent method of repair to damaged weatherstripping

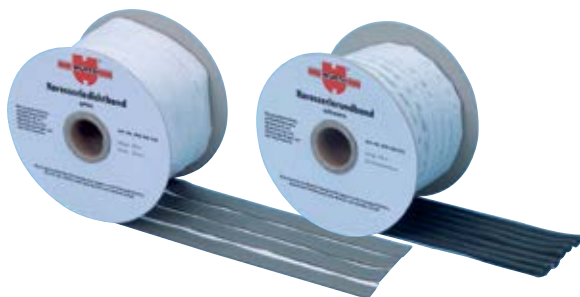
- Effective bonding of rubber to rubber or rubber to metal
- Excellent for attaching trim or weatherstrip section
- Can be applied to lacquered or acrylic and enamel surfaces
- Set-up time allows for repositioning after initial contact

Application:

Spread a thin coat of product over damaged or repaired areas and smooth out with appropriate tool. After the mastic has formed a skin, coat lightly with a silicone. This will provide long lasting weathering and keep the area pliable.

Note: If it is necessary to close door or other area containing repair immediately following the repair, place a piece of polyethylene over repaired area and remove after curing takes place.

CAR BODY SEALING TAPE / ROUND SEALING STRIP



Instructions for use:

- The surfaces to be sealed must be dry, stable and free from grease and dust.
- The application temperature must not be below +5 °C (+41 °F).
- Absorbent and porous surfaces must be sealed before use.
- The car body sealing tape or round sealing strip must be pressed down carefully against the surface. Press the sealing surfaces together firmly to achieve an effective seal.
- Also suitable for general sealing jobs to protect against dust, moisture and vibrations in electrical, machinery and construction applications as well as heating, ventilation and air conditioning, for example, between screw connected parts, in seams, joints, housings of all types and pipe lead-throughs.
- Butyl has a tendency towards "cold flow" (distortion or deformation of a material under continual load at temperatures within the working range). Therefore, butyl products should always be attached mechanically, i.e. with screwing components together or use of a contact profile.
- Applying excessive pressure to the profile will cause "squeezing out" of the sealing compound. Never compress butyl products to their zero point.

Designation	Colour	Width	Thickness	Length	Art. No.	P. Qty.
Car body sealing tape	Grey	20 mm (25/32")	2 mm (5/64")	26 m (4 x 6.5m) 85.3' (4 x 21.3')	890.100030	1/4
Car body round sealing strip	Black	ø 8 mm ø 5/16"		17.5 m (7 x 2.5m) 57.4' (7 x 8.2')	890.100033	

Permanently plastic, self-adhesive sealing tape or round strip for sealing of overlapping car body panels.

- Very good adhesive properties. The tape offers very good adhesion as well as permanent bonding on various different surfaces, e.g. metal, plastic, wood, stone, etc.
- Good UV, weather and water resistance. Also suitable for outdoor use, resistance to rain and other weather influences (not for use in submerged condition).
- Resistant to ageing and high temperatures. Provided the tape is used expertly, adhesion and sealing is assured over a number of years. Also suitable for high-temperature applications, for example, sealing of car bodies.
- Steam diffusion layer. The sealing tape or round strip enable watertight sealing and prevent the penetration of moisture into the car body.

Other features:

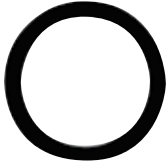
- Noise and vibration damping.
- Self-fusing.
- Free of solvents and silicone.
- Immediately ready for use.

Areas of application:

- Universal use for sealing of overlaps and screw connections in the automotive industry, container and motor home construction, for example: between fender and body; at brake and rear lights (particularly round sealing strip); at trim parts and sunroofs.

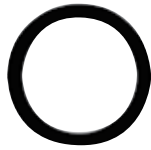
Technical Data	
Material base	Butyl rubber
Fire protection class	B2
Application temperature	+5 °C to +40 °C (41 °F to +104 °F)
Temperature stability	-30 °C to +100 °C (-22 °F to +212 °F)
Shelf life (at approx +20 °C and 50% humidity)	24 months (store dry, lying flat and dust-free)

O-RINGS



Metric O-Rings Prefix 468

(See the blue pages for the full range)
Rubber: 75 Durometer



Standard O-Rings Prefix 469

(See the blue pages for the full range)
Rubber: 75 Durometer



Blue Neoprene A/C O-Ring Prefix 469

(See the blue pages for the full range)
For use with R134A refrigerant



Green Neoprene A/C O-Ring Prefix 469

(See the blue pages for the full line)

O-RINGS



- Made of perbunan N (nitril-rubber)
PN 70 70 ± 5
- Temperature resistant from approx. -35 °C to +120 °C (-31 °F to +248 °F)
- Space saving, easily installed, reliable sealing elements
- For sealing moving and stationary machine components
- Resistant to all kinds of mineral oil, grease, hot water, steam, compressed air, weak acids, etc.

Metric			
Inner dia. metric	Material thickness mm	Art. No.	P. Qty.
3.0	2.0	468.00320	100
4.0		468.00420	
5.0		468.00520	
7.0		468.00720	
8.0		468.00820	
10.0	2.5	468.01020	50
12.0		468.01220	
10.0		468.01025	
12.0		468.01225	
14.0		468.01425	
15.0	3.0	468.01525	25
17.0		468.01725	
19.0		468.01925	
18.0		468.01830	
20.0		468.02030	
22.0	3.0	468.02230	25
24.0		468.02430	
42.0		468.04230	

Imperial					
Inner dia.		Material thickness mm	International Code	Art. No.	P. Qty.
mm	inches	inches			
2.90	1/8	1.78 0.070	AS-006	468.290	50
3.69	5/32		AS-007	468.369	
4.47	3/16		AS-008	468.447	
5.28	7/32		AS-009	468.528	
6.07	1/4		AS-010	468.607	
7.66	5/16		AS-011	468.766	
9.25	3/8		AS-012	468.925	
9.19	3/8	2.62 0.103	AS-110	468.919	50
10.78	7/16		AS-111	468.1078	
12.37	1/2		AS-112	468.1237	
13.95	9/16		AS-113	468.1395	
15.54	5/8		AS-114	468.1554	
17.13	11/16		AS-115	468.1713	
18.72	3/4		AS-116	468.1872	
20.22	13/16	3.53 0.139	AS-211	468.2022	25
21.82	7/8		AS-212	468.2182	
23.40	15/16		AS-213	468.2340	
25.00	1		AS-214	468.2500	
26.57	1 1/16		AS-215	468.2657	
28.17	1 1/8		AS-216	468.2817	
31.34	1 1/4		AS-218	468.3134	
34.52	1 3/8	AS-220	468.3452	25	
36.10	1 7/16	AS-221	468.3610		

RUBBER O-RINGS - METRIC – PREFIX 468

Temperature Resistance: -35 C - +120 C



BLACK STANDARD O-RINGS – PREFIX 469


Art. No. 469.327

ID: 1-3/4" | 44.45mm
OD: 2-1/8" | 53.975mm
Thickness: 13/64" | 5.159mm


Art. No. 469.222

ID: 1-1/2" | 38.1mm
OD: 1-3/4" | 44.45mm
Thickness: 1/8" | 3.175mm


Art. No. 469.220

ID: 1-3/8" | 34.925mm
OD: 1-5/8" | 41.275mm
Thickness: 1/8" | 3.175mm


Art. No. 469.219

ID: 1-5/16" | 33.338mm
OD: 1-9/16" | 39.688mm
Thickness: 1/8" | 3.175mm


Art. No. 469.218

ID: 1-1/4" | 31.75mm
OD: 1-1/2" | 38.1mm
Thickness: 1/8" | 3.175mm


Art. No. 469.217

ID: 1-3/16" | 30.163mm
OD: 1-7/16" | 36.513mm
Thickness: 1/8" | 3.175mm


Art. No. 469.216

ID: 1-1/8" | 28.575mm
OD: 1-3/8" | 34.925mm
Thickness: 1/8" | 3.175mm


Art. No. 469.215

ID: 1-1/16" | 26.988mm
OD: 1-5/16" | 33.338mm
Thickness: 1/8" | 3.175mm


Art. No. 469.214

ID: 1" | 25.4mm
OD: 1-1/4" | 31.75mm
Thickness: 1/8" | 3.175mm

ID = Interior Diameter
OD = Outer Diameter

BLACK STANDARD O-RINGS – PREFIX 469


Art. No. 469.213

ID: 15/16" | 23.813mm
OD: 1-3/16" | 30.163mm
Thickness: 1/8" | 3.175mm


Art. No. 469.212

ID: 7/8" | 22.225mm
OD: 1-1/8" | 28.575mm
Thickness: 1/8" | 3.175mm


Art. No. 469.211

ID: 13/16" | 20.638mm
OD: 1-1/16" | 26.988mm
Thickness: 1/8" | 3.175mm


Art. No. 469.210

ID: 3/4" | 19.05mm
OD: 1" | 25.4mm
Thickness: 1/8" | 3.175mm


Art. No. 469.116

ID: 3/4" | 19.05mm
OD: 15/16" | 23.813mm
Thickness: 3/32" | 2.381mm


Art. No. 469.115

ID: 11/16" | 17.463mm
OD: 7/8" | 22.225mm
Thickness: 3/32" | 2.381mm


Art. No. 469.114

ID: 5/8" | 15.875mm
OD: 13/16" | 20.638mm
Thickness: 3/32" | 2.381mm


Art. No. 469.113

ID: 9/16" | 14.288mm
OD: 3/4" | 19.05mm
Thickness: 3/32" | 2.381mm


Art. No. 469.112

ID: 1/2" | 12.7mm
OD: 11/16" | 17.463mm
Thickness: 3/32" | 2.381mm


Art. No. 469.111

ID: 7/16" | 11.113mm
OD: 5/8" | 15.875mm
Thickness: 3/32" | 2.381mm


Art. No. 469.110

ID: 3/8" | 9.525mm
OD: 9/16" | 14.288mm
Thickness: 3/32" | 2.381mm


Art. No. 469.012

ID: 3/8" | 9.525mm
OD: 1/2" | 12.7mm
Thickness: 1/16" | 1.588mm


Art. No. 469.011

ID: 5/16" | 7.938mm
OD: 7/16" | 11.113mm
Thickness: 1/16" | 1.588mm


Art. No. 469.010

ID: 1/4" | 6.35mm
OD: 3/8" | 9.525mm
Thickness: 1/16" | 1.588mm


Art. No. 469.009

ID: 7/32" | 5.556mm
OD: 11/32" | 8.731mm
Thickness: 1/16" | 1.588mm


Art. No. 469.008

ID: 3/16" | 4.763mm
OD: 5/16" | 7.938mm
Thickness: 1/16" | 1.588mm


Art. No. 469.007

ID: 5/32" | 3.969mm
OD: 9/32" | 7.144mm
Thickness: 1/16" | 1.588mm


Art. No. 469.006

ID: 1/8" | 3.175mm
OD: 1/4" | 6.35mm
Thickness: 1/16" | 1.588mm

ID = Interior Diameter
OD = Outer Diameter

GREEN AIR CONDITIONING O-RINGS – PREFIX 469



Art. No. 469.09211
ID: 0.796" | 20.22mm
OD: 1.072" | 27.24mm
Thickness: 0.139" | 3.53mm



Art. No. 469.09118
ID: 0.862" | 21.90mm
OD: 1.059" | 26.89mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09018
ID: 0.739" | 18.77mm
OD: 0.857" | 21.76mm
Thickness: 0.07" | 1.78mm



Art. No. 469.09175
ID: 0.797" | 20.24mm
OD: 0.974" | 24.75mm
Thickness: 0.098" | 2.5mm



Art. No. 469.09016
ID: 0.614" | 15.60mm
OD: 0.739" | 18.78mm
Thickness: 0.07" | 1.78mm



Art. No. 469.09015
ID: 0.551" | 14mm
OD: 0.691" | 17.56mm
Thickness: 0.067" | 1.7mm



Art. No. 469.0901555
ID: 0.51" | 12.95mm
OD: 0.655" | 16.63mm
Thickness: 0.071" | 1.8mm



Art. No. 469.902110
ID: 0.551" | 14mm
OD: 0.724" | 18.38mm
Thickness: 0.09" | 2.29mm



Art. No. 469.09014
ID: 0.489" | 12.42mm
OD: 0.629" | 15.98mm
Thickness: 0.07" | 1.79mm



Art. No. 469.92121
ID: 0.394" | 10mm
OD: 0.591" | 15mm
Thickness: 0.098" | 2.5mm



Art. No. 469.09013
ID: 0.426" | 10.82mm
OD: 0.566" | 14.38mm
Thickness: 0.066" | 1.68mm



Art. No. 469.09012
ID: 0.364" | 9.25mm
OD: 0.504" | 12.8mm
Thickness: 0.067" | 1.7mm



Art. No. 469.09011
ID: 0.301" | 7.65mm
OD: 0.316" | 8.03mm
Thickness: 0.071" | 1.8mm



Art. No. 469.09108
ID: 0.236" | 6mm
OD: 0.433" | 11mm
Thickness: 0.103" | 2.62mm



Art. No. 469.09903
ID: 0.301" | 7.65mm
OD: 0.42" | 10.67mm
Thickness: 0.064" | 1.63mm



Art. No. 469.091155
ID: 0.291" | 7.38mm
OD: 0.435" | 11.04mm
Thickness: 0.071" | 1.8mm



Art. No. 469.92103
ID: 0.26" | 6.6mm
OD: 0.417" | 10.6mm
Thickness: 0.07" | 1.78mm



Art. No. 469.09022
ID: 0.276" | 7mm
OD: 0.394" | 10mm
Thickness: 0.058" | 1.47mm



Art. No. 469.09901
ID: 0.185" | 4.7mm
OD: 0.291" | 7.4mm
Thickness: 0.056" | 1.42mm



Art. No. 469.09008
ID: 0.176" | 4.47mm
OD: 0.441" | 11.21mm
Thickness: 0.071" | 1.8mm

GREEN AIR CONDITIONING O-RINGS – PREFIX 469


Art. No. 469.09010

ID: 0.239" | 6.07mm
OD: 0.379" | 9.63mm
Thickness: 0.07" | 1.78mm


Art. No. 469.09568905

ID: 0.414" | 10.52mm
OD: 0.546" | 13.88mm
Thickness: 0.072" | 1.83mm


Art. No. 469.09568110

ID: 0.362" | 9.19mm
OD: 0.56" | 14.22mm
Thickness: 0.103" | 2.62mm


Art. No. 469.09111

ID: 0.424" | 10.77mm
OD: 0.623" | 15.83mm
Thickness: 0.103" | 2.62mm


Art. No. 469.09568906

ID: 0.473" | 12.01mm
OD: 0.614" | 15.60mm
Thickness: 0.074" | 1.88mm


Art. No. 469.09568113

ID: 0.549" | 13.95mm
OD: 0.74" | 18.8mm
Thickness: 0.103" | 2.62mm


Art. No. 469.09568114

ID: 0.612" | 15.54mm
OD: 0.787" | 20mm
Thickness: 0.103" | 2.62mm


Art. No. 469.09017

ID: 0.676" | 17.17mm
OD: 0.816" | 20.73mm
Thickness: 0.066" | 1.68mm

BLUE AIR CONDITIONING O-RINGS – PREFIX 469


Art. No. 469.18543

ID: 11/16" | 17.463mm
OD: 13/16" | 20.638mm
Thickness: 1/16" | 1.588mm


Art. No. 469.18540

ID: 9/16" | 14.288mm
OD: 11/16" | 17.463mm
Thickness: 1/16" | 1.588mm


Art. No. 469.18539

ID: 1/2" | 12.7mm
OD: 11/16" | 17.463mm
Thickness: 3/32" | 2.381mm


Art. No. 469.18537

ID: 7/16" | 11.113mm
OD: 9/16" | 14.288mm
Thickness: 1/16" | 1.588mm


Art. No. 469.18536

ID: 3/8" | 9.525mm
OD: 9/16" | 14.288mm
Thickness: 3/32" | 2.381mm


Art. No. 469.18534







ID: 5/16" | 7.938mm
OD: 7/16" | 11.113mm
Thickness: 1/16" | 1.588mm


Art. No. 469.18533

ID: 1/4" | 6.35mm
OD: 7/16" | 11.113mm
Thickness: 3/32" | 2.381mm

ALUMINUM O-RINGS FOR A/C SYSTEMS

Helps prevent leaking from the hose manifold at the joint where it attaches to the compressor

Image	Size	OEM #	Application	Art. No.	P. Qty.
	5/8"	GM: 52757910	GM Compressor Manifold Sealing Washer - Thick	469.09638	10
	5/8"	GM: 52455752	GM Compressor Manifold Sealing Washer - Thin	469.09639	10
	3/4"	GM: 52455756	GM Compressor Manifold Sealing Washer - Thin	469.09640	10
	8 mm	GM: 15-31054 / 5247087	GM Block Fitting Sealing Washer - Slim Line	469.09887	10
	11 mm	GM: 15-31055 / 52474373 Chrysler: 5012980AA	Block Fitting Sealing Washer - Slim Line	469.09888	10
	15 mm	GM: 15-30817 / 2724952 Chrysler: 5012979AA	Block Fitting Sealing Washer - Slim Line	469.09889	10
	17 mm	GM: 27249661 / 52474375 AC Delco: 15-31056 / 15-31101	Block Fitting Sealing Washer - Slim Line	469.09890	10

O-RING ASSORTMENTS



Art. No. 964.468

Metric Rubber O-Ring Assortment

Contents (440 Pieces):
From dia 5.28 - 36.1 mm



Art. No. 964.4681

Metric Rubber O-Ring Assortment

Contents (1050 Pieces):
From dia 3.0 - 24.0 mm



Art. No. 964.4685

Metric Rubber O-Ring Assortment

Contents (1050 Pieces):
18 Assorted sizes, Size range
2.9 mm-23.40 mm



Art. No. 964.4686

Metric Rubber O-Ring Assortment

Contents (330 Pieces):
12 Assorted sizes, Size range
25 mm - 43.8 mm

A/C ASSORTMENTS



Art. No. 965.469

Air Conditioning O-Ring Assortment

Contents (105 Pieces):
Size range 1/4"-5/8"



Art. No. 469.7771

Air Conditioning O-Ring Assortment

Contents (207 Pieces):
Highly saturated nitrile rubber
o-rings

MAKE YOUR OWN O-RING ASSORTMENT



Art. No. 964.4683

- Case fits into ORSY 100 shelf
- Allows you to make required O-Rings of any size at any time by yourself
- No delay of repair work
- This assortment allows you to make O-Rings of 5 different diameters and any size

Application Areas:

Shipyards, machine making, automotive repair workshops, agricultural and motorcycle repair, bus fleet operators, etc.

Assortment Contents:	
Description	Art. No.
1 Superschnell Glue (20 g)	893.09
1 Knife	715.6606
1 Cutting Jig	468.100*
1 m O-Ring band, ø 1.6 mm	468.1116
1 m O-Ring band, ø 2.4 mm	468.1124
1 m O-Ring band, ø 3.0 mm	468.1130
1 m O-Ring band, ø 5.7 mm	468.1157
1 m O-Ring band, ø 8.4 mm	468.1184

*available through Special Orders

O-RING HOOK REMOVAL ASSORTMENT



Art. No. 715.55330 - P. Qty. 4 pcs

Pick & Hook set for removal of O-rings and Seals

Features:

- For the removal and replacement of seals and O-rings,
- Perfect for hard to reach places
- Chrome-vanadium steel with a Chrome-plated surface
- 4 hook pieces – Straight pick, 90 degree, full hook and offset hook pick
- Comfortable 2K handle design

Description	Length	Art. No.
Universal Hook - Straight	240mm	071555 331
Universal Hook - 90°		071555 332
Universal Hook - Bent		071555 333
Universal Hook - Cranked		071555 334

Note: Articles in red are special orders only

A/C O-RING CONDITIONER



Art. No. 892.764301 113 g

Conditions and renews O-Rings

- Contains O-Ring conditioners, Ester Oil, R134A and U/V dye
- Specifically designed to condition all types of O-Rings and rubber components including hoses and seals, while helping to prevent leaks
- Polymer free
- Will not harm A/C System components, reclamation or recovery machines or clog orifice tubes
- 1 can treats one vehicle
- Installs easily using charging hose,

Art. No. 764.305000

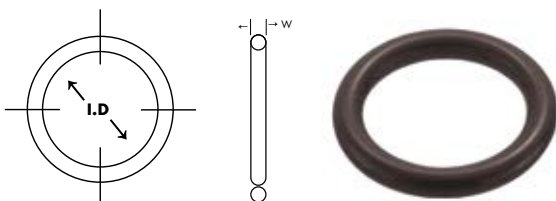
SILICONE O-RING LUBRICANT



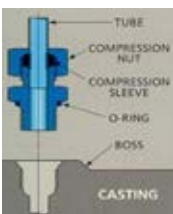
Art. No. 893.764311 118 mL

- Extends O-ring life
- Resists wash-away and moisture
- Withstands high temperatures
- 10000 cSt viscosity lubricant
- Easy to apply light weight oil comes in convenient 4 oz. squeeze tip bottle

STRAIGHT THREAD O-RINGS FOR BOSS SEALS



Boss Seals:



The standard sizes for o-rings include 20 sizes used to seal straight-thread tube fittings on a boss. A boss is cylindrical projection on a casting or forging. The end of that projection is machined to provide a flat, smooth surface for dealing. Straight threads used with an O-ring provide a better seal than tapered threads used alone.

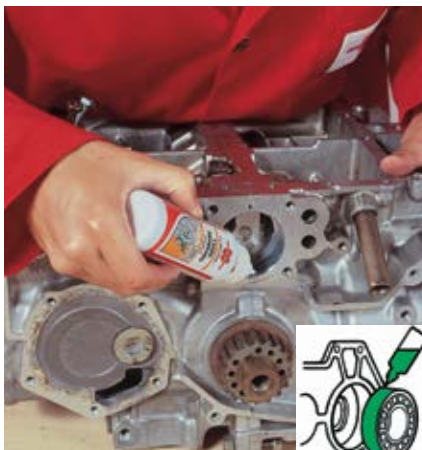
The 900 series of dash numbers identifies the 20 sizes of boss seals. Except for the size -901, the digits after the 9 identify the nominal tube size -901 in 16ths of an inch. The tube size is its outside diameter (OD). For example, size -903 is intended for use with 3/16-inch tube. The one exception, size -901, is intended for use with 3/32-inch. 1/16-inch tube is not common in aircraft use.

- Durometer hardness 90 ± 5
- Temperature Range - 30°C to +125°C for petroleum based fluids.
- Material: Nitrile (Buna-N-90)
- Standard o-ring complies with S.A.E. specification S.A.E. J515 Type CH

Port Size	Width	Inner Diameter	Art. No.	P. Qty	Qty. in Kit
1/16	.058	.185	468.99116	1	0
1/8	.064	.239	468.9918	10	10
3/16	.064	.301	468.99316	10	10
1/4	.072	.351	468.9914	10	10
5/16	.072	.414	468.99516	10	10
3/8	.078	.468	468.9938	10	10
7/16	.082	.530	468.99716	1	3
1/2	.087	.644	468.9912	5	5
5/8	.097	.755	468.9958	10	10
3/4	.116	.924	468.9934	10	10
7/8	.116	1.048	468.9978	1	3
1	.116	1.171	468.99100	10	10
1-1/4	.118	1.475	468.99114	10	0
1-1/2	.118	1.720	468.99112	10	0
2	.118	2.337	468.99200	5	0

Available as a Kit: Art No. 965.46805 in a 16cmpt drawer (955.916)

RETAINING COMPOUND



For high-strength assembly of bushings, sleeves, geared wheels, bolts, shaft and hub connections and bearings exposed to high loads

Dependable curing at low temperatures around 0 °C

A dependable aid in winter

Can be applied to slightly oily surfaces

No need for time-consuming degreasing of bearings

Max. gap filling of 0.15 mm

Even large deviations can be corrected economically

Prevents frictional corrosion

Prevents seizing of bearings providing easy disassembly

Contents	Art. No.
23 mL	893.603025
46 mL	893.603050

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Green
Viscosity (spindle 4/20 rpm) 25 °C Brookfield (RVT)	100-150 mPas (spindle rpm: 1/2 Density)
Density	1.07 g/cm ³
Max. thread diameter	M12
Max. gap filling capacity	0.15 mm
Flash point	> 90 °C (> 194 °F)
Shelf life	1 year at room temperature

Physical Properties (Cured State)	
Hand-tight after	5-10 minutes
Usable after	30-40 minutes
Final strength after	3-6 hours
Initial breakaway torque	N/A
Continuing torque	N/A
Pressure shearing strength (DIN 54452)	8-26 N/mm ²
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

PIPE SEALANT



Seals conical/cylindrical threaded pipe connections up to R3", e.g. sprinkler systems, gas and liquid tight.

Seals immediately under low pressure loads

- Pipes can be pressurized immediately
- up to approx. 5 bar, after final curing
- up to 300 bar

Also cures at temperatures below 0 °C

Can be used in cold weather

High resistance to chemicals

- Will not react with most industrial
- Liquids and gases

Description	Contents	Art. No.
Pipe Sealant	47 mL	893.577050

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Fluorescent yellow
Viscosity 25 °C Brookfield (RVT)	60,000-80,000 mPas (spindle rpm: 6/2.5) 20,000-30,000 mPas (spindle rpm: 6/20)
Density	1.05 g/cm ³
Max. thread diameter	R 3" (M 80)
Max. gap filling capacity	0.50 mm
Flash point	> 100 °C (212 °F)
Shelf life	1 year at room temperature

Physical Properties (Cured State)	
Hand-tight after	15-30 minutes
Usable after	1-3 hours
Final strength after	3-6 hours
Initial breakaway torque	15-20 Nm (M10)
Continuing torque	10-15 Nm (M10)
Pressure shearing strength	6-13 N/mm ²
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

PIPE SEALANT WITH PTFE



Seals all metal pipe connections and fittings with conical/cylindrical threads, according to DIN 2999 against most industrial liquids and gases. Replaces PTFE tape or hemp. Certified by DVGW* according to DIN 30661. Cured sealing compounds for threaded pipe connections in fittings and gas appliances. This product may not be used for domestic gas or water installations, according to DIN 30660.

Can be subjected to loads up to 200 bar (2900 psi)

Suitable for high pressure systems. Can be subjected to loads up to the bursting pressure of the pipes after full curing and with correctly tightened connections.

Completely compensates for thread play as well as surface roughness

Forms an excellent reliable connection

Neutral and insulating behaviour with metals

Prevents corrosion of the threads

Easy application

Secure and quick assembly

Solvent-free

Significantly reduced health hazards

Highly viscous

Sealant will not run off the thread

Easy disassembly

- No special tools required

* DVGW - German Technical and Scientific Association for Gas and Water

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	White
Viscosity 25 °C Brookfield (RVT)	300,000-500,000 mPas (spindle rpm: 7/2)
Density	1.1 g/cm ³
Max. thread diameter	R 3" (M 80)
Max. gap filling capacity	0.50 mm
Flash point	> 100 °C
Shelf life	1 year at room temperature

Physical Properties (Cured State)	
Hand-tight after	10-20 minutes
Usable after	1-3 minutes
Final strength after	24 hours
Initial breakaway torque	4-6 Nm (M10)
Continuing torque	1-3 Nm (M10)
Pressure shearing strength (DIN 54452)	2-6 N/mm ² (DIN 54452)
Operating temperature range	-55 °C to +150 °C [-67 °F to +302 °F]

Resistance to Chemicals- DIN 53287 test similar to DIN 53	
Rel. strength in %	500 h
Water/ glycol at 87 °C	100
Engine oil MIL-L16 152 at 125 °C	100
Gasoline, leaded, at 22 °C	60
Gasoline, unleaded, at 22 °C	60
Trichloroethane at 22 °C	50

Contents	Art. No.
50 mL	893.511050
250 mL	893.511250

HYDRAULIC SEALANT



For sealing screw connections in pneumatic and hydraulic systems under high loads up to the bursting pressure of the pipe or hose

Can be applied to slightly oily surfaces

No need for time-consuming degreasing

Excellent resistance to all hydraulic fluids and fuels

High degree of safety, since impairments due to dissolving are prevented

Quick curing, even at low temperatures: hand-tight after 40 minutes, usable after 2 to 3 hours.

Minimized down times of your vehicles

Contents	Art. No.
41 mL	893.545050

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Violet
Viscosity 25 °C Brookfield RVT	1,500-2,000 mPas (spindle rom: 5/2.5)
Density	1.20 g/cm ³
Max. thread diameter	R 3/4"
Max. gap filling capacity	0.15 mm
Flash point	> 100 °C
Shelf life	1 year at room temperature

Physical Properties (Cured State)	
Hand-tight after	30-40 minutes
Usable after	2-3 hours
Final strength after	12-24 hours
Initial breakaway torque	2-3 Nm (M10)
Continuing torque	1-2 Nm (M10)
Pressure shearing strength	1-3 N/mm ²
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

FLANGE SEALANT NON DRIPPING



For sealing of flanges and surfaces with a large gap. Non-drip product.

Non-drip, viscous product

No dripping or running of the material, thus ideal for working an overhead and vertical surfaces. The material stays where it is needed!

Slight flexibility up to 120 °C (248 °F)

Compensates for heat expansion differences of up to 30% between materials

Seals immediately under low pressure loads

Test pressure can be applied immediately. No waiting time required.

Also suitable for passive metals

Aluminum flanges can also be sealed. Only one product required for several materials.

Quick curing: usable after 30 minutes

Short down times for your vehicles

Contents	Art. No.
44 mL	893.518050

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Red
Viscosity 25 °C Brookfield (RVT/RVT/HB)	80,000-1,000,000 mPas (TP spindle rpm: 0.5) 200,000-300,000 mPas (TP spindle rp: 5.0)
Density	1.1 g/cm ³
Flash point	> 100 °C
Shelf life	1 year at room temperature

Physical Properties (Cured State)	
Usable after	1-3 hours
Final strength after	24-72 hours
Initial breakaway torque	6-9 Nm (M10)
Continuing torque	5-7 Nm (M10)
Pressure shearing strength (DIN 54452)	7-10 N/mm ²
Tensile strength	4-12 N/mm ² (DIN 53288)
Impact shearing strength	-
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

SUPER RTV SILICONE



High-grade adhesive and sealing compound for use with motor vehicles.

Very good resistance to chemicals.

Suitable for use in critical areas, in which the seal may temporarily be in contact with several fluids. The product shows an excellent resistance against motor and gear oils, refrigerants, and anti-freeze.

Acid-free hardening system.

Non-corrosive, therefore no negative effects on electronic components or Lambda sensors.

High temperature stability.

- Utilization in the temperature range on machinery and engines possible.
- Sealant in a compressed air spray can.

Easy dosage without auxiliary devices.

Optimum handling, which means that an even product application using fine beads is possible.



Application:

Optimal adhesion is achieved on clean and dry surfaces. Old sealing materials must be removed completely from the sealing surface.

Technical Data	
Chemical basis	Modified oxime silicone
State	Thixotrope paste
Skin forming time (ASTM-D-4678)	5 minutes
Time to dry surface	Within 3–4 minutes
Full hardening speed approx.	2 mm/24 h (23°C/50% r.h.)
Shore hardness A (ASTM-D-676)	40
Tensile strength (ASTM-D-412)	Approx. 2.2 N/mm ²
Elongation at rupture (ASTM-D-412)	270 – 300%
Thermal conductivity (ASTM D-2214/70)	0.002 Jcm ⁻¹ s ⁻¹ K ⁻¹
Coefficient of thermal expansion (ASTM EB-31)	20 x10 ⁻⁵ K ⁻¹
Dielectric strength (ASTM D-149)	16 kV/mm
Relative permittivity @ 1MHz (ASTM D-150)	2.8
Dielectric loss factor @ 1MHz (ASTM D-150)	0.002
Electrical volume resistance (ASTM D-257)	1x 10 ¹⁵ /cm

Colour	Contents	Temperature Range	Application Area	According to Specifications	Art. No.
Black	232 g, Pack Qty. 1/6	–60°C to +260°C (briefly up to +315°C)	Water pumps, oil pumps, front covers, cam shaft bearing covers, thermostat bodies, oil pans, transmission cases, power axle covers, sun roof, doors	GM 1052751, 1052917 Ford D6AZ-19562-B Chrysler 4318025 Fiat 9.55720/B	893.3311
Red	256 g, Pack Qty. 1/6	–60°C to +315°C (briefly up to +370°C)	Engine covers and flanges		893.3312
Blue	256 g, Pack Qty. 1/6	–60°C to +260°C (briefly up to +315°C)	Valve covers, differential gear housings, rear axle bodies, oil pan, crankshaft housing, intake air distributor		893.3313
Transparent	256 g, Pack Qty. 1/6	–60°C to 260°C (briefly up to +315°C)	Lamp bodies, sealing and encasing of electrical connections, sealing of coach work parts		893.3314
Grey	232 g, Pack Qty. 1/6	–60°C to 260°C (briefly up to +315°C)	Water pumps, oil pumps, front covers, cam shaft bearing covers, thermostat bodies, oil pans, transmission cases, power axle covers	Toyota 00295-00102, 00295-01281, 00295-01208 Mitsubishi MD997740, MD997110 Nissan 999MP-A7007 Honda 08718-55000040E, HC2963817, 0095Z-POA Hyundai 4C116-21000, 21451-33A01	893.3316

RTV-SILICONE GASKET



This low volatile, one component neutral-cure silicone rubber is virtually unaffected by temperature and weather extremes, chemicals and aging

- This material seals or replaces a wide range of cork, paper, asbestos, felt and metal gaskets
- 100 % Silicone Rubber
- Non-Corrosive
- Permanently Flexible
- Fast Cure

02 Sensor Safe		
Colour	Quantity	Art. No.
Blue	300 mL	890.00004
Black	226 g	890.913
Clear	226 g	890.914
Temperature range -62 to 210°C (-80 to 410°F)		

Applications:

Oil Pans, Water Pumps, Valve/Axle Covers, Crank Cases, Thermostat Housing, Transmission Pans

Recommended:

Replacement Nozzle **Art. No. 890.9131**

Caution:

Do not use on head gaskets or carburetor base gaskets.

Red High Temperature		
Colour	Contents	Art. No.
Red	300 mL	890.0005
Red	226 g	890.9102 Working time: 5-10 minutes Tack-free time: 10-20 minutes Full cure time: 72 hours
Temperature range -62 to 260°C (-80 to 500°F), intermittently to 315°C/600°F		

GENERAL PURPOSE SILICONE



Room temperature vulcanizing (RTV) adhesive agent

- Temperature resistance -46 °C to +232°C (-50 °F to +450 °F)
- Ozone and weather resistant
- Resistant to moisture and vibration
- NSF/ANSI51 listed

Applications:

For sealing various materials

Recommended:

Replacement Nozzle **Art. No. 892.3700**

Compatible with:

360 Rotating Nozzle **Art. No. 891.6533**



Colour	Contents	Art. No.
Almond	300 mL	892.56020
White		892.56022
Black		892.56023
Clear		892.56024
Grey		892.56025

360° ROTATING NOZZLE + EXTENSION



Item Description	Art. No.	P. Qty
A 360° Rotating Nozzle	891.6533	10
B Extension for application Nozzle 360°	891.65331	



Benefits:

- Dynamic and flexible nozzle which will ease the finishing of unreachable joints remarkably.
- 360 degree rotation.
- Easy to use in hard-to-reach surfaces.
- Fits a number of articles.
- The nozzle can be extended with multiple extensions to reach the desired length.

360° Rotating Nozzle Features:

- Length: 11cm
- Color: Transparent

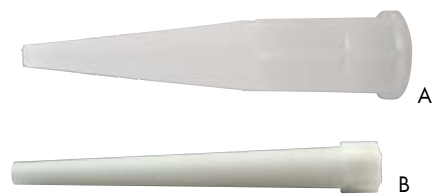
Nozzle Extension Features:

- Length: 11cm
- Color: Transparent
- Several extensions can be combined

Nozzle Compatibility Chart

Item Description	Art. No.
RTV High Temp Red Silicone 300 mL	890.0005
Glue And Seal White 310 mL	890.1001
Glue And Seal Grey 310 mL	890.1002
Glue And Seal Black 310 mL	890.1003
General Purpose Silicone Almond 300 mL	892.56020
General Purpose Silicone White 300 mL	892.56022
General Purpose Silicone Black 300 mL	892.56023
General Purpose Silicone Clear 300 mL	892.56024
General Purpose Silicone Grey 300 mL	892.56025
Sprayable Seam Seal Black 290 mL	893.910400
Sprayable Seam Seal White 290 mL	893.910401
Sprayable Seam Seal Grey 290 mL	893.910402
Sprayable Seam Seal Beige 290 mL	893.910403

REPLACEMENT NOZZLES



Nozzle	For use with Art. No.'s	Art. No.
A	892.56020, 892.56022, 892.56023, 892.56024, 892.56025	892.3700
B	890.00004, 890.913, 890.914, 890.00005, 890.9102	890.9131

RTV SILICONE - SCHOOL BUS YELLOW



Art. No. 892.5717 300 mL

School Bus Yellow Silicone is a flexible, durable, RTV adhesive with a wide variety of sealing and bonding use. It will adhere to metal, wood, glass, porcelain, plastic, painted surfaces, ceramic and rubber.

Suitable For:

Sealing leaks and drafts in windshields, body side window, rear windows and doors. Seals flashing and warning light signals. Use as a body seam sealer, seal internal and external body patches, seal wiring harnesses. Insulates electrical components.

Note: Do not use for head gaskets. Product is not paintable. Not suitable for use below waterline marine applications.

QUICK SEAL



Art. No. 890.95900 283 g

- Non-corrosive oxime cure
- Product is tack-free in 5 minutes and cures in 2-6 hours, depending on thickness and atmospheric conditions
- Gets vehicles back in operation immediately with less down time
- Rapid onset of adhesion
- Fast R.T. cure
- Allows handling of the assembly within an hour
- Thixotropic paste
- 1-part silicone
- Excellent unprimed adhesion to many plastics, metal and glass
- High temperature resistance
- Temperature range: -40 °C to +315 °C (-40 °F to +600 °F) (intermittently to +343 °C/ 650 °F)
- Meets and/or exceeds GM (998-5675; 998-5990), Ford (WSE-M4 6323-A6) & Chrysler (GF-44A) specifications
- Meets and/or exceeds volatility requirements for oxygen sensor equipped engines
- High resistance to oils, gasoline fluids and coolant solutions

Applications:

Form in place gaskets, Adhesive sealant, Industrial bonding, Adheres to glass, plastic and most metals

BOND AND SEAL



Elastic polyurethane adhesive and sealant with a wide range of material applications such as metal, painted surfaces, wood, stone, concrete and plastic (polyester and hard PVC).

Features:

- Universal use
- High-elasticity
- Long skin formation time
- Can be mechanically machined and painted over (following skin formation) without surface activation
- Can adhere same and different materials
- Silicone free
- Nearly odourless
- Non-corrosive

Benefits:

- Outstanding adhesive strength on a wide range of materials and surfaces
- Dampens vibrations and noise
- Compensates expansion of different materials
- Enables bonding and/or sealing of complicated and very large components
- Joint parts can be repositioned
- Does not present any health hazard when cured

Note: Do not bring into contact with alkyd-resin paint systems. Not suitable for glass groove sealing in areas in which UV back reflection can occur. Direct exposure to sunlight can lead to slight surface yellowing. Not suitable for PE, PP, PTFE, silicone rubber, expanded polystyrene and softened plastics. Preliminary testing should be done to determine compatibility with paint.

Colour	Contents	Art. No.
White	310 mL	890.1001
Grey		890.1002
Black		890.1003

Technical Data

Chemical basis	1- component polyurethane
Density (DIN 53479) (before hardening)	approx. 1.25 kg/l
Application temperature	+5 °C to +35 °C (=41 °F to +95 °F)
Skin formation time*	45-60 min.
Hardening speed*	Dry in 1-2 hours; fully cured in 2.5-24 hrs
Volume change (DIN 52451)	approx. -5%
Shore A hardness (DIN 53505)	approx. 40
Tensile strength (DIN 53504)	1.5 N/mm²
Elongation at tear (DIN 53504)	approx. 500%
Resistance to further tearing (DIN 53515)	approx. 6 N/mm
Elongation, compression during use	10%
Volume resistivity (DIN 53482)	approx. 10 ¹⁰ W cm
Glass transition temperature (DIN 53445)	approx. -45 °C (-49 °F)
Temperature resistance	-40 °C to +90 °C (-40 °F to +194 °F) 8 hr at +120 °C (248 °F)
Resistant to	Water, seawater and limy water, public waste water, weak acidic and alkaline solutions.
Briefly resistant to	Fuels, mineral oils, vegetable and animal fats and oils
Shelf life	12 months at +10 °C to +25 °C (+50 °F to +77 °F)

Additional tools:

Beading Nozzle **Art. No. 891.653**

360° Rotating Nozzle **Art. No. 891.6533**

Areas of application:

Door skin adhesive, body moulding kits, bolted fender joints and fenders, front and rear spoilers, welded joints. Seam sealing/joints, (e.g. overlapping chassis seams, container seals, step-by-step welding seams, housing seals, expansion joints, gap seals). Visible joints, (e.g. connection joints). Area adhesion, (e.g. bumper plates, bed plates, corrugated sheet metal and steps of carrier plates, corner and edge protection plates). Seam adhesion/point adhesion, (e.g. sheet metal overlaps, angle profiles, lorry side panels, mounts, frame adhesions, sign and board mounting). Adhesion of automotive accessories, (e.g. spoilers). External tractor/trailer, (e.g. sealing overlapping seams, FRP adhesion, e.g. windscreens and roof sheeting). Internal tractor/trailer, (e.g. sealing of floor group--usually metal/wood, agricultural machines. Visual joints in folds, welded and overlapping seams). Interior bus (e.g. joint sealing of floor group).

THREADLOCKER-HIGH STRENGTH (RED)



Screw retaining and sealing compound - hardly removable.
For securing, attaching and sealing of screws, studs, bolts, nuts, threaded inserts and plugs, which are not required to be removed under normal circumstances.

Particularly well-suited for heavy duty screw connections

- No additional securing devices required

Removable only after heating to 300 °C!

- Under normal conditions only removable with special tools and/or heating

Outstanding resistance to chemicals and heat

- Universal product with a wide range of applications

Prevents loosening caused by, for instance, vibrations or impact

- No safety problems, unlike, for instance, with mechanical screw retainers
- NSF Certified

Contents	Art. No.
9 mL	893.271010
44 mL	893.271050
225 mL	893.271250

Physical Properties (Cured State)	
Hand-tight after	10 - 20 minutes
Usable after	1 - 3 hours
Final strength after	5 - 10 hours
Initial breakaway torque	> 30 Nm (M10)
Continuing torque	> 45 Nm (M10)
Pressure shearing strength (DIN 54452)	12 - 15 N/mm ²
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Red
Viscosity - 25 °C Brookfield (RVT)	400 - 600 mPas (spindle rpm: 2/20)
Density	1.11 g/cm ³
Max. thread diameter	M25
Max. gap filling capacity	0.15 mm
Flash point	> 100 °C (> 212 °F)
Shelf life	1 year at room temperature

THREADLOCKER-MEDIUM STRENGTH (BLUE)



Screw retaining and sealing compound - removable

Provides medium strength connections

- Can be disassembled using normal tools

Curing is assured even on untreated parts

- Can be used with uncleaned parts (e.g. as delivered)

Can also be applied to stainless steel and passive surfaces

- No "accelerators" or "activators" required

Outstanding resistance to chemicals and heat

- Universal product with a wide range of applications

Prevents loosening caused by, for instance, vibrations or impact

- No safety problems, unlike, for instance, with mechanical screw retainers
- NSF Certified

Contents	Art. No.
9 mL	893.243010
45 mL	893.243050
223 mL	893.243250

Physical Properties (Cured State)	
Hand-tight after	5-15 minutes
Usable after	0.5-1 hour
Final strength after	1-3 hours
Initial breakaway torque	~ 21 Nm
Continuing torque	~ 10 Nm
Pressure shearing strength (DIN 54452)	8-12 N/mm ²
Operating temperature range	-55 °C to +150 °C (-67 °F to +302 °F)

Physical Properties (Liquid State)	
Chemical description	Dimethylacrylate
Colour	Fluorescent blue
Viscosity - 25 °C Brookfield (RVT)	5,000-7,000 mPas (spindle rpm: 1/20) 1,500-2,500 mPas (spindle rpm: 3/20)
Density	1.12 g/cm ³
Max. thread diameter	M36
Max. gap filling capacity	0.25 mm
Flash point	> 100 °C (> 212 °F)
Shelf life	1 year at room temperature