



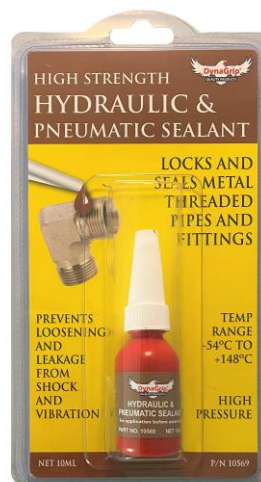
## HYDRAULIC AND PNEUMATIC SEALANT

### PART NO. 10569 (10mL) 50569 (50mL)

#### DESCRIPTION

**DynaGrip®** Hydraulic and Pneumatic Sealant is a high performance anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration.

Seals against gases, water, LPG, hydrocarbons, oils and other chemicals.



#### TYPICAL APPLICATIONS

- Recommended hydraulic anaerobic sealant.
- Metal and fibre plants, paper processing plants, and chemical processing plants, waste treatment facilities, textile equipment and processing.
- Fine filtration systems.
- Ideal for use in metal pipes and fittings.

#### FEATURES

- No mixing
- No curing outside of joint
- Will not foul valves or screens.

#### PHYSICAL PROPERTIES

##### Monomer (Liquid)

|   |   |
|---|---|
| Base Compound.....  | Methacrylate Ester                      |
| Colour.....   | Brown                                   |
| Viscosity (cP @ 25 <sup>0</sup> C/77 <sup>0</sup> F)..... | 400cP                                   |
| Flash Point (TCC).....                                    | >100 <sup>0</sup> C(212 <sup>0</sup> F) |
| Max Gap Fill.....   | N/A                                     |
| Corrosivity.....  | None                                    |
| Toxicity.....   | Low                                     |
| Shelf Life @ 4 <sup>0</sup> C(40 <sup>0</sup> F).....     | 1 year unopened                         |
| Coefficient of Thermal Expansion.....                     | 80x10-6                                 |
| ASTM D 696, K-1   |   |
| Coefficient of Thermal Conductivity.....                  | 0.10                                    |
| ASTM C 177,W/(m·K)  |   |
| Specific Heat, kJ/(kg·K).....                             | 0.30                                    |

## CHEMICAL RESISTANCE

| Chemical     | Temp.  | % Initial Strength Retained |            |
|--------------|--------|-----------------------------|------------|
|              |        | 500 hours                   | 1000 hours |
| Acetone      | 22 0C  | 100                         | 100        |
| Ethanol      | 22 0C  | 95                          | 90         |
| Motor Oil    | 125 0C | 100                         | 100        |
| Petrol       | 22 0C  | 100                         | 95         |
| Brake Fluid  | 22 0C  | 100                         | 95         |
| Water/Glycol | 87 0C  | 100                         | 100        |

## CURING PROPERTIES

Service Temp. Range: -54<sup>0</sup>C to 148<sup>0</sup>C (-65<sup>0</sup>F to 300<sup>0</sup>F)

Handling Cure Time: 10 - 30 minutes

Functional Cure Time: 2 - 4 hours

Full Cure Time: 24 hours

Breakaway Torque, ISO 10964:

M10 steel nuts and bolts > 2.8 N.m  
> 24 lb.in.

Prevail Torque, ISO 10964:

M10 steel nuts and bolts > 1.1010 N.m  
> 9.0 lb.in.

Compressive Shear Strength, ISO 10123:

Steel pins and collars >10 N/mm<sup>2</sup>  
1470 psi

## GENERAL INSTRUCTIONS

Surfaces to be bonded should be clean and dry and free of grease.

Product should be applied in enough quantity to fill all engaged threads. The product performs best in thin bond gaps. Very large gaps may create gaps, which will affect the cure speed and overall strength. Good contact is essential. An adequate bond develops in 15 to 45 minutes and maximum strength is attained in 24 hours.

**This product is not recommended for use in pure oxygen environments and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.**

This product is not designed for plastics, particularly thermoplastics where stress cracking of the plastic could result. It is recommended to confirm compatibility of the product with all substrates prior to use.

## STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 32°C (90°C), **DynaGrip**® Hydraulic and Pneumatic Sealant has a shelf life of 12 months from date of shipment.

In Countries where high heat and humidity are a factor, special precautions must be taken. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%. Rotation of stock is an absolute necessity. Cartons should always be stacked upright. **DO NOT** stack cartons on their side. **NEVER** stack cartons more than 8 high. **DO NOT** store within 1 metre (4 feet) of roofline of the warehouse or storage building.

## GENERAL INFORMATION

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitable use. Since the supplier cannot know all the uses, or the conditions of use to which the products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

The supplier warrants only that its products will meet its specifications. There is no use, nor any other express or implied warranty. The user's exclusive remedy and the supplier's sole liability is limited to refund of the purchase price or replacement of any product when to be otherwise than as warranted. The supplier will not be liable for incidental or consequential damages of any kind.

Suggestions of uses should not be taken as inducements to infringe any patents.



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