

## **TECHNICAL DATA SHEET – Refrigerant Sealant 154**

Anaerobic Refrigerant Sealant 154 is the latest chemical product designed to reduce manufacturing cost while providing increased reliability of mechanical assemblies.

Anaerobic products are designed to cure (with minimal shrinkage) in the presence of metal and the absence of air, (oxygen). They have been used by manufacturers for over 35 years to replace expensive mechanical devices designed to prevent parts from leakage, corrosion and vibrating apart.

This latest version of anaerobics are less surface sensitive and will cure on as received parts generally to a working cure of one hour.

Refrigerant Sealant 154 is a thread sealant for joints up to 3". It is a high strength anaerobic adhesive for locking and sealing thread connections. It's high viscosity and thixotropic properties allows larger tolerances. Highly resistant to heat, corrosion, vibrations, water, gases, oils, hydrocarbons, and many chemicals. It is also a low strength anaerobic adhesive for thread locking of nuts, bolts and screws of all types that require easily disassembly.

### **PROPERTIES OF UNCURED PRODUCT**

Composition Methacrylate Ester

Appearance Red liquid

Specific Gravity (77°F/25°C g/ml) 1.02

Viscosity, Brookfield (77°F/25°C mPa.s)

Spindle 3- 20 rpm 2500 mPa.s Flash Point, TCC >93°C

Shelf life at 20°C 1 year

Storage temperature 8° - 28°C

### **PROPERTIES OF CURED PRODUCT**

Functional strength at 24 hrs 20° on steel

Time to achieve full strength on steel @ 22°C 24 hrs min

Coefficient of thermal expansion (ASTM D696) 0.1 1/K

Thermal conductivity (ASTM C177) 0.1 W/Mk

Specific heat 0.3 Kj.Kg-1 K-1

Temperature range -55° +150°C

Refrigerant Sealant 69 is available in 10ml, 50ml, 250ml, 1liter, and 10 liter containers. Special sizes available upon request. Shelf life on all anaerobics is 2 years

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