



# TECHNICAL DATA SHEET

## TAFTLOCK 43

Anaerobic Thread Locker

Updated: Sept 2018

### PRODUCT DESCRIPTION

**TAFTLOCK 43** is a fast curing, medium strength anaerobic thread locking compound ideal for bonding and sealing threads, and retaining of cylindrical parts. **TAFTLOCK 43** exhibits high resistance to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals.

### ADVANTAGES

- Ideal for less active materials, such as stainless steel, and plated parts etc
- Ideal for fasteners between 6 to 20mm diameters.
- Locks and seals threaded joints-nuts, screws, and studs with excellent oil resistance.

### ADHESIVE PROPERTIES

|                                                           |                      |
|-----------------------------------------------------------|----------------------|
| <b>Composition:</b>                                       | Dimethacrylate Ester |
| <b>Color:</b>                                             | Blue                 |
| <b>Viscosity:</b><br>(Brookfield RVT, Spindle 3 @ 20 rpm) | 2250 cps at 25°C     |
| <b>Specific Gravity:</b>                                  | 1.07                 |
| <b>Flash Point:</b>                                       | >100 °C              |
| <b>Shelf Life:</b>                                        | 2 years              |

### CURING PROPERTIES

|                                                                                               |                                                   |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Handling Cure Time:</b>                                                                    | 10 – 12 minutes                                   |
| <b>Functional Cure Time:</b>                                                                  | 1 – 3 hours                                       |
| <b>Full Cure Time:</b>                                                                        | 24 hours                                          |
| <b>Breakaway Torque, ISO 10964:</b><br>(M10 steel nuts and bolts N.m)                         | 20 N.m<br>(204 kgf/cm)                            |
| <b>Prevail Torque, ISO 10964:</b><br>(M10 steel nuts and bolts)                               | 7 N.m<br>(71 kgf/cm)                              |
| <b>Breakloose Torque, ISO 10964:</b><br>-Pre-torqued to 5 N.m<br>(M10 steel nuts and bolts)   | 24 N.m<br>(245 kgf/cm)                            |
| <b>Max. Prevail Torque, ISO 10964:</b><br>-Pre-torqued to 5 N.m<br>(M10 steel nuts and bolts) | 24 N.m<br>(245 kgf/cm)                            |
| <b>Compressive Shear Strength, ISO 10123:</b><br>(Steel pins and collars)                     | >8 N/mm <sup>2</sup><br>(82 kgf/cm <sup>2</sup> ) |
| <b>Temperature Range:</b>                                                                     | -55 to 150°C                                      |



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### PHYSICAL PROPERTIES

|                                                                     |                     |
|---------------------------------------------------------------------|---------------------|
| <b>Coefficient of Thermal Expansion</b><br>(ASTM D696, K-1)         | 80×10 <sup>-6</sup> |
| <b>Coefficient of Thermal Conductivity</b><br>(ASTM C 177, W/(m.k)) | 0.10                |
| <b>Specific Heat</b><br>(kJ/kg.K)                                   | 0.30                |

### CHEMICAL RESISTANCE

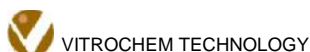
| CHEMICAL       | TEMPERATURE | % INITIAL STRENGTH RETAINED |             |
|----------------|-------------|-----------------------------|-------------|
|                |             | 500 hours                   | 1'000 hours |
| Acetone        | 22°C        | 95                          | 90          |
| Ethanol        | 22°C        | 100                         | 100         |
| Motor Oil      | 125°C       | 95                          | 95          |
| Gasoline       | 22°C        | 100                         | 100         |
| Brake Fluid    | 22°C        | 100                         | 100         |
| Water / Glycol | 87°C        | 90                          | 90          |

### APPLICATION METHOD

Surfaces should be dry, clean, and free of any contamination. Thread locker should be applied to the bolt in sufficient quantity to fill threads. **TAFTLOCK 43** performs the best in thin bond gaps. This thread locker is specifically formulated to give controlled friction and torque/tension ratio during assembly.

### STORAGE

Anaerobic adhesives shall be ideally stored in a cool, dry place in unopened containers at room temperature between 8°C to 25°C. Please do not return any unused material to its original container.



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