



A NEW FORCE IN CHEMICAL MANUFACTURING

Unit 2, 14-16 Lee Holm Road
St Marys NSW 2760
Australia

Ph: 1300 738 250 (Australia)
Ph: +61 2 9833 9766 (International)
Fax: 02 9623 3670

sales@chemtools.com.au
www.chemtools.com.au

TECHNICAL DATA SHEET

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PRODUCT NAME

8574 Fast Curing, Large Gaps Gasket Sealant

PRODUCT RANGE

| Part Number | Available Size |
|-------------|----------------|
| 8574-50 | 50 ml |
| 8574-250 | 250 ml |



Refer to MSDS for product safety guidelines

8574 Fast Curing, Large Gaps Gasket Sealant

Chemtools® 8574 is an anaerobic gasket sealant, which develops medium strength in a short time. The compound cures in the absence of air between close fitting metal surfaces. It is a semi rigid, fast curing gasketing sealant that seals close fitting joints between rigid metal faces and flanges. Provides resistance to low pressure immediately after assembly of flanges.

APPLICATIONS:

- Typically used as a form-in-place on rigid flanged connections, e.g. gearbox and engine casings, etc.
- Thixotropic nature reduces the migration of liquid product after application.

ADHESIVE PROPERTIES:

| | |
|---|-----------------------|
| Composition | Dimethacrylate Ester |
| Appearance | Orange |
| Viscosity @ 25°C (Brookfield RVT, Spindle 7 @ 20 rpm) | 30,000 to 100,000 cps |
| Specific Gravity | 1.10 |
| Flash Point | > 93°C |
| Solvent Content | None |

CURING PROPERTIES:

| | |
|---|---------------------------------------|
| Handling Cure Time (Primed Surfaces) | 15 minutes - 2 hours |
| Functional Cure Time (Unprimed Surfaces) | 1 - 12 hours |
| Temperature Range | -55 to 150°C |
| Shear Strength - ISO 4587 (Steel, Grit Blasted) | 8.5 N/mm ² (1,230 psi) |
| Tensile Strength - ISO 6922 (Steel, Grit Blasted) | 5 N/mm ² (725 psi) |
| Compressive Shear Strength - ISO 10123 After 24 hours at 22°C (Steel Pins and Collars) | > 6.0 N/mm ² (> 1,230 psi) |

PHYSICAL PROPERTIES:

| | |
|--|-----------------------|
| Coefficient of Thermal Conductivity, ASTM C177, W/m.K | 0.10 |
| Coefficient of Thermal Expansion, ASTM D696, K ⁻¹ | 80 x 10 ⁻⁶ |
| Specific Heat, kJ/kg.K | 0.30 |

CHEMICAL RESISTANCE PROPERTIES:

| Chemical | Temperature | % Initial Strength Retained | |
|--------------|-------------|-----------------------------|------------|
| | | 500 hours | 1000 hours |
| Acetone | 22°C | 100 | 95 |
| Ethanol | 22°C | 90 | 90 |
| Motor Oil | 125°C | 100 | 100 |
| Gasoline | 22°C | 75 | 75 |
| Brake Fluid | 22°C | 95 | 95 |
| Water/Glycol | 87°C | 85 | 85 |

APPLICATION INSTRUCTIONS:

- For best results, clean all surfaces (external and internal) with a cleaning solvent and allow solvent to evaporate.
- If the material is an inactive metal, or the cure speed is too slow, spray with Activator 8071 or 8049 and allow to dry.
- Apply manually as a continuous bead or by screen-printing to one of surface of the flanges.
- Low pressure can be used when testing to confirm a complete seal immediately after assembly.
- Flanges should be tighten as soon as possible after assembly to avoid shimming.

STORAGE:

Anaerobic adhesives shall be ideally stored in a cool, dry place in unopened containers at a room temperature between 7°C to 28°C. Please do not return any unused material to its original container.

PRECAUTIONS:

This product is capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material.

WARRANTY:

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