

A NEW FORCE IN CHEMICAL MANUFACTURING



# CYANOACRYLATE, STRUCTURAL, AND ANAEROBIC ADHESIVES

AUGUST 2014



**CHEMTOOLS® PTY LTD (AUSTRALIA) | [WWW.CHEMTOOLS.COM.AU](http://WWW.CHEMTOOLS.COM.AU)**

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# CYANOACRYLATE, STRUCTURAL AND ANAEROBIC ADHESIVES

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**Chemtools®** are Australian owned and operated. Our products are proudly made and manufactured locally.

**Chemtools®** have been supplying high quality products and chemicals to a wide variety of industries at competitive prices for over 20 years. We are committed to manufacturing and supplying 'best in class' products to our customers in Australia, NZ, and around the world.

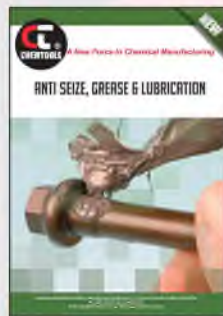
Dealing with Chemtools® is easy. We have a team of highly experienced and knowledgeable personnel who are able to offer advice on applications - and most importantly, help with solutions. Our friendly and efficient internal sales team are ready to accept your orders, deal with technical queries, and assist with any other challenges you may have.

Chemtools® products are available through a network of distributors world-wide. Visit our website for a detailed look at the products seen here, or view and download the most current version of this catalogue, or any in our range, at [www.chemtools.com.au](http://www.chemtools.com.au)

**Contact us on 1300 738 250, or for international callers, phone us direct on +61 2 9833 9766**

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**8222 Low Strength Threadlocker**

Low strength threadlocker designed for the locking and sealing of threaded fasteners and is ideal for diameters of 6 mm and smaller which require "easy disassembly" with standard hand tools. Also use on set screws, adjustment screws, calibration screws, meters, gauges. Protects threads from rust and corrosion.

Size	Part Number
10 mL	8222-10
50 mL	8222-50
250 mL	8222-250



**8242 Medium Strength Threadlocker**

Medium strength threadlocker designed for the locking and sealing of threaded fasteners and is ideal for diameters of 6 to 19 mm which require easy disassembly with standard hand tools. Protects threads from rust and corrosion.

Size	Part Number
10 mL	8242-10
50 mL	8242-50
250 mL	8242-250



**8243 Oil Resistant High Viscosity Medium Strength Threadlocker**

Oil resistant, medium strength, removable, general purpose threadlocking adhesive ideally suited for fasteners between 6 and 20 mm diameter. Tolerant of oil and other contamination. Protects threads from rust and corrosion. Cures reliably even on stainless steel.

Size	Part Number
10 mL	8243-10
50 mL	8243-50
250 mL	8243-250



**8262 High Strength Threadlocker**

High strength threadlocker designed for the permanent locking and sealing threaded fasteners and is ideal for diameters of 720mm.

Size	Part Number
10 mL	8262-10
50 mL	8262-50
250 mL	8262-250



**8263 Oil Resistant High Strength Threadlocker**

High strength, oil resistant threadlocker is designed for permanent locking and sealing of metal fasteners. This high temperature resistant (180°C) threadlocker is engineered to work with a variety of metals including Stainless Steel, Zinc and Steel.

Size	Part Number
10 mL	8263-10
50 mL	8263-50
250 mL	8263-250



**8270 High Strength Permanent Low Viscosity Threadlocker**

A high strength, permanent threadlocker for fasteners up to 25 mm. Secures large studs and bolts. Intended for parts that do not require disassembly. Cures fast and reliably on most metal surfaces. Seal threads against industrial fluids. Protects threads from rust and corrosion.

Size	Part Number
10 mL	8270-10
50 mL	8270-50
250 mL	8270-250



**8277 High Strength Permanent Threadlocker**

Ideal for locking and sealing of larger bolts and studs. (M25 and larger) Transmission and engine block studs, valve sets, etc. High strength, permanent and eliminates need for double nutting and welding. Prevents corrosion and leakage. Excellent performance on even oily surfaces. Fasteners on vibrating machines or moving components.

Size	Part Number
10 mL	8277-10
50 mL	8277-50
250 mL	8277-250



**8290 Medium Strength Low Viscosity Threadlocker**

Penetrates threads by capillary action. Medium strength threadlocker. Ideal for sealing hairline cracks, small nuts and bolts. Seals and welds porous metal parts. Localised heating and hand tools are needed for disassembly. Prevents corrosion and leakage. Secure setscrews and other assemblies after settings are completed. Fasteners on vibrating machines or moving components.

Size	Part Number
10 mL	8290-10
50 mL	8290-50
250 mL	8290-250



**8-3471 Primer for Anaerobic Adhesives**

Chemtools® 8-3471 is designed to promote the speed of cure of anaerobic thread lockers, thread sealants, gasket sealants and retaining compounds.

Size	Part Number
100 mL	8-3471-100
1 Litre	8-3471-1L
300g Aerosol	8-3471-300

"For further information on the threadlocker range please visit our website [www.chemtools.com.au](http://www.chemtools.com.au)"





**8542 High Performance Thread Sealant**

Chemtools® 8542 is a high performance anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings. Ideal for fine threads. The product cures rapidly in the absence of air between close fitting metal surfaces and provides low-pressure resistance immediately after application. Chemtools® 8542 is ideal to seal against gases, water, LPG, hydrocarbons, oils and other chemicals.

Size	Part Number	Colour	Brown
50 mL	8542-50	Sp Gravity:	1.06
250 mL	8542-250	Viscosity cps:	525/1,850 Thixotropic
		Temperature Range:	-50 to 200°C



**8565 Thread Sealant General Purpose with Controlled Strength**

Chemtools® 8565 is a controlled strength, high performance anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings.

**NSF Certified:**

Certified to ANSI/NSF Standard 61 for use in commercial and residential potable water systems not exceeding 82°C.

**Pressure Resistance:**

Chemtools® 8565 was successfully tested for pressure resistance and seal to 3,000 psi. 3/8 inch NPT steel pipe tees and plugs were assembled and pre-torqued to 27 N.m and allowed to cure for 24 hours prior to testing at 3000 psi hydraulic pressure according to ASTM D 1599.

Size	Part Number	Colour	White
50 mL	8565-50	Sp Gravity:	1.1
250 mL	8565-250	Viscosity cps:	300,000
		Temperature Range:	-50 to 200°C



**8567 High Performance Thread Sealant**

Chemtools® 8567 is a high performance anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings. The high lubricating properties of this compound prevent galling on stainless steel, aluminum and all other metal pipe threads and fittings.

**APPLICATIONS:**

- Recommended for industrial applications in the chemical processing, petroleum refining, pulp/paper, waste treatment, textile, utilities/power generation, marine, automotive, industrial equipment, gas compression and distribution industries.

Size	Part Number	Colour	White
10 mL	8567-10	Sp Gravity:	1.14
50 mL	8567-50	Viscosity cps:	540,000
250 mL	8567-250	Temperature Range:	-50 to 200°C



**8569 High Performance Thread Sealant**

Chemtools® 8569 is a high performance anaerobic thread sealant designed for the locking & sealing of metal threaded pipes & fittings. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening & leakage from shock & vibration.

Chemtools® 8569 is ideal to seal against gases, water, LPG, hydrocarbons, oils & other chemicals.

**APPLICATIONS:**

- Typical application includes metal and fibre plants, paper processing plants, and chemical processing plants, waste treatment facilities, textile equipment and processing.

Size	Part Number	Colour	Brown
10 mL	8569-10	Sp Gravity:	1.05
50 mL	8569-50	Viscosity cps:	400
250 mL	8569-250	Temperature Range:	-50 to 150°C



**8577 Medium Strength Thread Sealant**

Chemtools® 8577 is a medium strength, high performance anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings.

The product cures rapidly in the absence of air between close fitting metal surfaces and provides low-pressure resistance immediately after application.

Chemtools® 8577 is ideal to seal against gases, water, LPG, hydrocarbons, oils and other chemicals.

**APPLICATIONS:**

- Ideal for locking and sealing of threaded metal pipes and fittings.
- Designed for coarse threads. Suitable for stainless steel surfaces.

Size	Part Number	Colour	Yellow
50 mL	8577-50	Sp Gravity:	1.09
250 mL	8577-250	Viscosity cps:	24,000/80,000 Thixotropic
		Temperature Range:	-50 to 180°C

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### 8609 Fast Curing Retaining Compound

Chemtools® 8609 is a fast curing, medium strength anaerobic retaining compound for continuous working temperatures up to 300°F. Chemtools® 8609 retaining compound is ideal for gap distances up to 0.005" diameter. Meets US Military Specification R-46082B Type I.

#### APPLICATIONS:

- Join rotor to shafts in fractional & sub-fractional horsepower motors.
- High temperature resistance retaining compound.
- Used for close fitting parts, rotor on shafts, bushes, pulleys and gears.



Size	Part Number	Colour	Green
10 mL	8609-10	Sp Gravity:	1.1
50 mL	8609-50	Torque Inch Break/Prevail:	3,125
250 mL	8609-250	Viscosity cps:	125
		Cure Speed	Fixture: 10 minutes Full: 24 hours
		Mil Specification:	R-46082B Type I

### 8620 High Viscosity, High Strength Retaining Compound

Chemtools® 8620 is a high viscosity; high strength anaerobic retaining compound for cylindrical fitting parts particularly, where bond gaps can approach 0.25mm (0.01"). High temperature resistance up to 200°C. Chemtools® 8620 retaining compound is a single component anaerobic adhesive, which develops high strength rapidly when confined in the absence of air between close fitting metal surfaces.

#### APPLICATIONS:

- High temperature resistance up to 200°C.
- Retains sleeves into pump housings and bearings in auto transmission.



Size	Part Number	Colour	Green
10 mL	8620-10	Sp Gravity:	1.14
50 mL	8620-50	Torque Inch Break/Prevail:	3,875
250 mL	8620-250	Viscosity cps:	8,400 Thixotropic
		Cure Speed	Fixture: 30 minutes Full: 24 hours

### 8641 Retaining Compound Controlled Strength for Dismantling Parts

Chemtools® 8641 is a medium viscosity, medium strength anaerobic bearing compound, formulated for continuous working up to 150°C.

#### APPLICATIONS:

- Ideal to fill gaps up to 0.20mm diameter clearance.
- High performance controlled strength, versatile bearing compound.
- Used for fitting bearings, brushes and oil seals. Ideal, for cylindrical parts that require disassembly. Permits sliding fit & eliminates distortion.
- Excellent retaining, sealing and thread locking compound.



Size	Part Number	Colour	Yellow
10 mL	8641-10	Sp Gravity:	1.07
50 mL	8641-50	Torque Inch Break/Prevail:	3,125
250 mL	8641-250	Viscosity cps:	1000cps
		Cure Speed	Fixture: 30 minutes Full: 24 Hours

### 8660 Retaining Compound for Repair Old Machinery Parts

Chemtools® 8660 is a fast curing, paste like consistency, anaerobic retaining compound. This high strength retaining compound is specially formulated for use on cylindrical fitting parts, particularly where bond gaps can approach 0.5mm.

#### APPLICATIONS:

- Ideal to fill gaps up to 0.50mm diameter clearance.
- Used for restoring correct fits on worn shafts, span bearings and damaged keyways.
- Excellent retaining, sealing and thread locking compound.



Size	Part Number	Colour	Grey
50 mL	8660-50	Sp Gravity:	1.13
250 mL	8660-250	Torque Inch Break/Prevail:	3,875
		Viscosity cps:	1,225,000 cps
		Cure Speed	Fixture: 10 minutes Full: 24 hours

### 8680 Fast Curing, High Strength Retaining Compound

Chemtools® 8680 is a fast curing; high strength anaerobic retaining compound for cylindrical joints. Chemtools® 8680 retaining compound is a single component anaerobic adhesive, which develops high strength rapidly when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from vibration and shock.

#### APPLICATIONS:

- High Strength, high performance for slip fitted part.



Size	Part Number	Colour	Green
10 mL	8680-10	Sp Gravity:	1.11
50 mL	8680-50	Torque Inch Break/Prevail:	4,125
250 mL	8680-250	Viscosity cps:	1,200
		Cure Speed	Fixture: 10 minutes Full: 24 hours

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**8510 High Temperature Flange Gasket Sealant**

Chemtools® 8510 is a high temperature, chemical resistant anaerobic gasket sealant, which develops medium strength in a short time. The compound cures in the absence of air between close fitting metal surfaces.

**TEMPERATURE RANGE:-50 TO 180°C**  
**APPLICATIONS:**

- Used as a form-in-place gasket on flanged connections.
- Typical uses are engine casings and gearboxes.
- Thixotropic nature reduces the migration of liquid product after application.

Size	Part Number
50 mL	8510-50
250 mL	8510-250



**8515 Flexible Flange Gasket Sealant**

Chemtools® 8515 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. Chemtools® 8515 will flex with minor flange movements.

**TEMPERATURE RANGE:-55 TO 150°C**  
**APPLICATIONS:**

- Typically used as a form-in-place gasket for pumps, thermostats, compressors, transmission housings & axle covers.
- Thixotropic nature reduces the migration of liquid product after application.

Size	Part Number
50 mL	8515-50
250 mL	8515-250
300mL	8515-300



**8518 Flexible Solvent Resistance High Viscosity Gasket Sealant**

Chemtools® 8518 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. Chemtools® 8518 is a flexible gasketing sealant, which will flex with minor flange movements.

**TEMPERATURE RANGE:-55 TO 150°C**  
**APPLICATIONS:**

- Typically used as a form-in-place on rigid flanged connections.
- Thixotropic nature reduces the migration of liquid product after application.

Size	Part Number
50 mL	8518-50
250 mL	8518-250
30cc/25grams	8518-30PT



**8574 Gasket Sealant Flexible Fast Curing, Large Gaps**

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. Chemtools® 8574 is a semi rigid, fast curing gasketing sealant; seals close fitting joints between rigid metal faces and flanges.

**TEMPERATURE RANGE:-55 TO 150°C**  
**APPLICATIONS:**

- Typically used as a form-in-place on rigid flanged connections.
- Thixotropic nature reduces the migration of liquid product after application.

Size	Part Number
50 mL	8574-50
250 mL	8574-250

**STRUCTURAL ADHESIVES**



Size	Part Number
25 mL	8-300NF-25
50 mL	8-300NF-50
400 mL	8-300NF-400

**8-300NF High Strength Structural Adhesive**

Chemtools® 8-300NF is an all purpose non-flammable high strength structural adhesive which offers excellent adhesion to a wide variety of thermoplastics, thermosets, composites and metal surfaces.

**FEATURES:**

- 1:1 Mix Ratio
- High Strength
- Great for quick repairs

**TYPICAL APPLICATION:**

ABS	PVC	FRG
Acrylics	Polyesters	Steel, Stainless
Aluminium	Steel, Carbon	Urethanes
Vinyl Esters	Gelcoats	Styrenic



Size	Part Number
25 mL	8-310NF-25
50 mL	8-310NF-50
400 mL	8-310NF-400

**8-310NF Two-Part Structural Adhesive**

Chemtools® 8-310NF is a non-flammable two-part structural adhesive designed for structural bonding of a wide variety of thermoplastic and composite assemblies. This adhesive combines high strength and stiffness with the ability to adhere to difficult to bond materials.

**FEATURES:**

- No Surface Preparation
- 1:1 Mix Ratio
- High Strength

**TYPICAL APPLICATION:**

ABS	Acrylics
FRP	Gelcoats
PVC	Polyesters
Urethanes	Vinyl Esters



Size	Part Number
100 mL	8-1200-100
1 Litre	8-1200-1L

**8-1200 Primer for Methacrylate Adhesives**

Chemtools® 8-1200 Methacrylate primer is a single component, solvent based surface accelerator.

Chemtools® 8-1200 is designed to promote the speed of cure of methacrylate

<b>Chemical Type:</b>	Organic Catalyst
<b>Appearance:</b>	Amber liquid
<b>Viscosity:</b>	1 cps@ 20°C
<b>Drying Time@:</b>	20°C, <60 seconds
<b>On part life:</b>	7 days
<b>Specific gravity:</b>	@ 25°C 0.8

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**8401 Surface Insensitive Ethyl Cyanoacrylate**

Chemtools® 8401 is a general purpose instant adhesive ideal for bonding rough, porous and acidic surfaces including Wood, Cardboard, Balsa Wood, Rubbers, Plastics, Metals, Leather, etc as well as a wide variety of industrial manufacturing and repairing applications. Meets Military specification MLLA 46050 Type II Class II

**Colour: Clear**  
**Viscosity: 80-120 cps**

Size	Part Number
20 grams	8401-20
50 grams	8401-50
500 grams	8401-500



**8406 Wicking Grade Cyanoacrylate**

Chemtools® 8406 is wicking grade cyanoacrylate, works on Wood, Metals and is ideal for bonding rubber components on handles, tools, electrical appliances and vehicle doors with window seals.

**Colour: Clear**  
**Viscosity: 20 cps**

Size	Part Number
20 grams	8406-20
50 grams	8406-50
500 grams	8406-500



**8414 Modified Ethyl Cyanoacrylate**

Chemtools® 8414 is specially formulated to bond various plastics such as ABS, Polycarbonate, Styrene, Polypropylene, PVC, Polyester, PET, Bonding vinyl plastics to themselves or to metal. Ideal for Optical Goods, Medical Devices, Telephones, Cameras, Marine Electronics, Toys, Gift items, O-rings and many more uses.

**Colour: Clear**  
**Viscosity: 110 cps**

Size	Part Number
20 grams	8414-20
50 grams	8414-50
500 grams	8414-500



**8435 Clear Rubber Toughened Instant Adhesive**

Chemtools® 8435 is a versatile adhesive formulated for bonding plastics, metals and rubber. This low viscosity instant adhesive and has excellent impact resistance.

**Colour: Clear**  
**Viscosity: 110 cps**

Size	Part Number
20 grams	8435-20
50 grams	8435-50
500 grams	8435-500



**8454 Surface Insensitive Ethyl Gel Cyanoacrylate**

Chemtools® 8454 gel cyanoacrylate is formulated for use on a wide variety of surfaces which gives a high strength bond on most substrates. Can be used manually or with automated processing systems. Suitable for bonding porous or absorbent materials such as wood, paper, leather and fabric, excellent adhesion to metal, plastic and elastomeric compounds.

**Colour: Clear**  
**Viscosity: Gel**

Size	Part Number
20 grams	8454-20
300 grams	8454-300



**8480 Toughened Ethyl - High Strength Black Cyanoacrylate**

Chemtools® 8480 cyanoacrylate is formulated for use on industrial parts manufacturing with an exceptional toughness. It resists extreme impact loading and has ten (10) times the toughness of conventional instant adhesives. Withstands high vibration and thermal cycling (-60°C to +105°C) & humidity. Ideal for applications requiring extreme environmental resistance.

**Colour: Black**  
**Viscosity: 300 cps**

Size	Part Number
20 grams	8480-20
50 grams	8480-50
500 grams	8480-500



**8-1155 Acetone Based Cyanoacrylate Activator**

Chemtools® 8-1155 acetone based cyanoacrylate activator is a single component, solvent based surface accelerator. Chemtools® 8-1155 is designed to promote the speed of cure of cyanoacrylate adhesives.

**FEATURES:**

- Can be either pre- or post-applied to the bond.
- Typical examples are securing wires or coils to PCB's, tamper proofing adjustable components, edge guided & board stiffeners.

Size	Part Number
100 mL	8-1155-100
1 Litre	8-1155-1L



**8-1255 IPA Based Accelerator Cyanoacrylate Activator**

Chemtools® 8-1255 IPA based cyanoacrylate activator is a single component, solvent based surface accelerator. Chemtools® 8-1255 is designed to promote the speed of cure of cyanoacrylate adhesives.

**FEATURES:**

- Can be either pre- or post-applied to the bond.
- Typical examples are securing wires or coils to PCB's, tamper proofing adjustable components, edge guided and board stiffeners.

Size	Part Number
100 mL	8-1255-100
1 Litre	8-1255-1L



**8-1770 Cyanoacrylate Primer**

Chemtools® 8-1770 Primer is formulated to help with adhesion on hard to bond surfaces. This product promotes high strength adhesion of Chemtools® cyanoacrylate adhesives on low energy plastics such as silicone rubber, PTFE, Acetal and polyolefin plastics (polyethylene & polypropylene).

Size	Part Number
100 mL	8-1770-100
1 Litre	8-1770-1L



**CT-DBR Debonder for Cyanoacrylate Adhesive**

Chemtools® CT-DBR debonder is formulated to remove cured instant adhesives from skin, plastics and work surfaces. Chemtools® debonder will soften cured cyanoacrylates and can also be used as a flushing solvent for dispensing systems.

Size	Part Number
100 mL	CT-DBR-100

**8-4100 Adhesive Remover**

Formulated to efficiently detach and clean adhesives from bonded surfaces.

Size	Part Number
1 Litre	8-4100-1L
5 Litre	8-4100-5L

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