

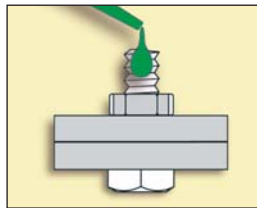
# Product data

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## 110

### Penetrating threadlocker

*Anaerobic*



#### General description

A controlled, water thin, medium strength anaerobic threadlocker for locking threaded assemblies after assembly – it wicks into the threads. It can also be used for sealing welds, pores, small gaps, holes and cracks in metal.

As with all **AJETT** threadlockers, **110** stops vibration loosening bolts, acts as a seal against leakage and corrosion and resists most chemicals and solvents. It can be undone with hand tools.

#### Benefits

- Low viscosity formulation penetrates a joint by capillary action.
- Allows positioning of very small screws before applying threadlocker.
- Eliminates need to undo a joint.
- Can also be used for penetrating into porous or cracked metal surfaces.
- Has all the benefits of 'normal' anaerobic threadlockers – improves joint reliability and stops vibration from loosening nuts and bolts.
- Forms a plastic seal that prevents threads rusting or seizing up and galvanic corrosion.
- Seals against leakage and corrosion.
- Only a few drops required for an effective seal.
- Wide temperature range in service.

- Green in colour for easy identification.
- Classified under US Military specification MIL-S-46163A, Type III, grade R.
- Cured product does not migrate.
- Easy to apply.
- Does not need activator or primer for plated parts (if application above 5°C).

#### Typical uses – locking and sealing

- Locking fasteners after positioning.
- Tiny 'instrument' screws as well as bolts, nuts, studs and plugs.
- Penetrating into and sealing welds, pores, small gaps, holes and cracks in metal.

#### Replaces

- Mechanical lock washers and specialist nuts.
- Expensive sealing systems.

#### Application

- By hand or automated.
- Single component – no mixing or primers.
- Self cures within the joint.

#### Cost saving

- Low inventory – one grade locks a wide variety of nuts and bolts.
- Only a small amount required to make an effective seal – any excess can be left.
- Joint is easy to undo, no matter how many years it has been assembled.

*'Anaerobic' – the locking and sealing process begins only when parts are assembled.*

## Typical properties

Composition	<b>Dimethacrylate ester</b>
Physical appearance	<b>Liquid</b>
Colour	<b>Green fluorescent</b>
Odour	<b>Light</b>
Viscosity at 25°C	<b>12.5 mPas</b>
Flash point, closed cup	<b>Above 100°C</b>
Temperature range	<b>-50 to +150°C</b>
Handling strength	<b>30 minutes at room temperature</b>
Full cure	<b>24 hours at room temperature</b>
Breakaway torque – typical	<b>10 N.m on M10 steel fasteners</b>
Breakaway torque – range	<b>3 to 17 N.m on M10 steel fasteners</b>
Prevail torque	<b>29 N.m on M10 steel fasteners</b>
Recommended thread sizes	<b>2.2 to 12 mm</b>
Relevant US Military specification	<b>MIL-S-46163A, Type III, grade R</b>

## Packaging

50 ml plastic bottles  
Catalogue number **110/50**. Other sizes available to order.

## Shelf life

12 months minimum in normal storage conditions (dry, room temperature) and in closed original packaging.

## Precautions for use

Please refer to the **AJETT** material safety data sheet *MSDS 110*.

## Application method

**AJETT 110** works best on clean parts – light oils can be tolerated. Brush over threads/cracks. Allow to wick into space and cure.

## Solvent resistance

**AJETT 110** maintains a minimum of 80% strength after 1,000 hours in most common fluids when immersed and tested at room temperature.

*The product is not for use with pure oxygen systems or systems containing strong oxidising materials.*

## Replacement

**AJett 110** can be used instead of the following anaerobic products:

Chemence 2031  
Loctite 290  
Omnifit 200LL  
Permabond AO16

**NOTE:** Data provided shows mean averages arrived after laboratory testing. Manufactured batches may vary slightly.

This publication is intended to serve as a guide only. Customers should satisfy themselves by appropriate trials that the product is suitable for its intended use.

The information is given in good faith and based on the state of our knowledge about the product – but cannot be used as a sales specification.

The attention of users should be brought to eventual hazards arising from the use of the product if they differ from what it was originally formulated for.

The customer will agree and accept our general sales and supply condition, in particular the cause of limitation and relief of responsibility.

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