

## Petritac

### Tacky Additive for Mineral Oil Based Lubricants

#### Description

Petritac is a tacky additive designed for use in mineral oil based lubricant systems. It is easily dissolved and is a highly mobile liquid (making it very easy to use). Petritac can also be used at very low treat rates.

#### Application

- Typical treat rates are between 0.25% & 1.0%.
- Petritac is soluble in paraffinic and naphthenic oils, as well as PAOs, polyisobutylenes and esters such as di-tridecyl adipate and trimellitates.
- Known applications include: wire rope & chain lubricants, rust preventatives, chainsaw lubricants, slideway lubricants, rock drilling oils, rail curve greases, greases, sealants and antimisting agents for metalworking fluids.

#### Typical Properties

Property	Typical
Appearance	Transparent, pale liquid
K.V. @100°C (mm <sup>2</sup> /sec)	2000
Density @15°C (g/cm <sup>3</sup> )	0.90
Flash Point (COC, °C)	170

#### Storage and Handling

Petritac has a shelf life of 24 months.

### Technical Performance

#### 1. 'Clingability' Test

##### Summary of test procedure

A test solution of tack additive in mineral oil is prepared, with the test solution at 20°C. A Brookfield Viscometer No.1 spindle is carefully lowered in the test solution to a standard depth. After 2 minutes, the spindle is carefully removed and rotated at 400rpm for 10 minutes. The weight of the lubricant remaining on the spindle is then carefully determined.

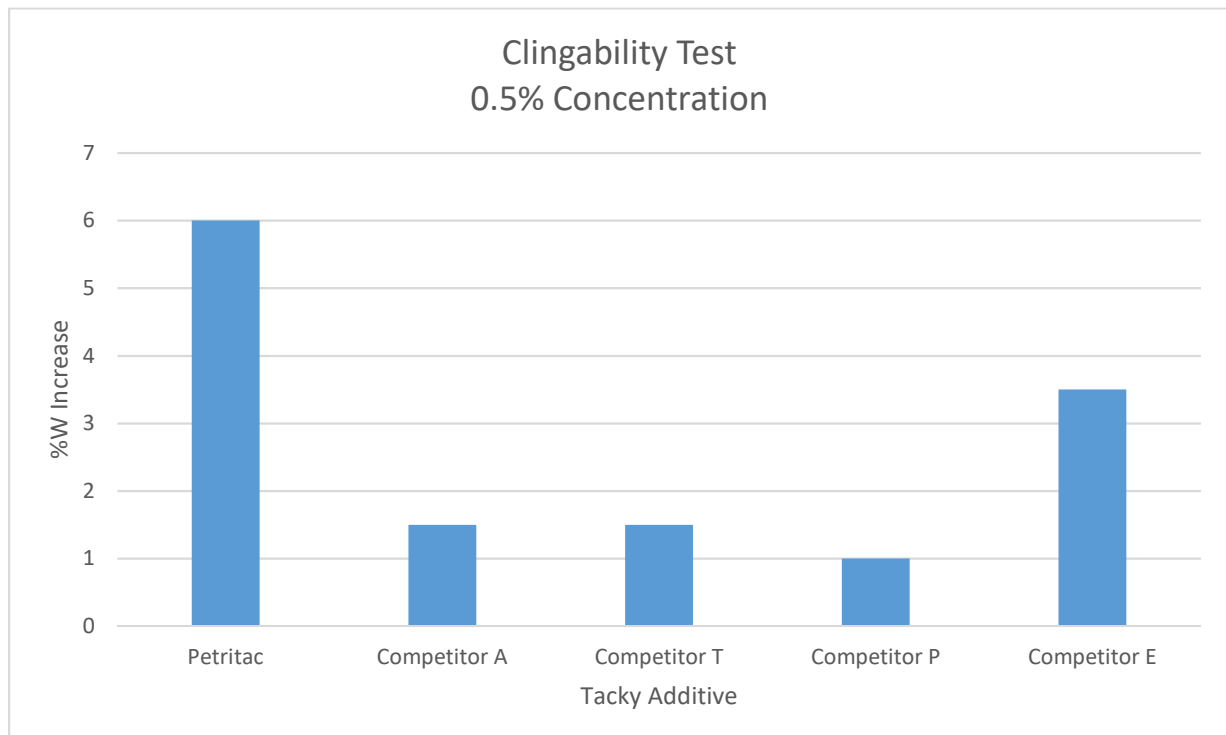
##### Samples tested

Blank Oil: Oil with no tacking agent

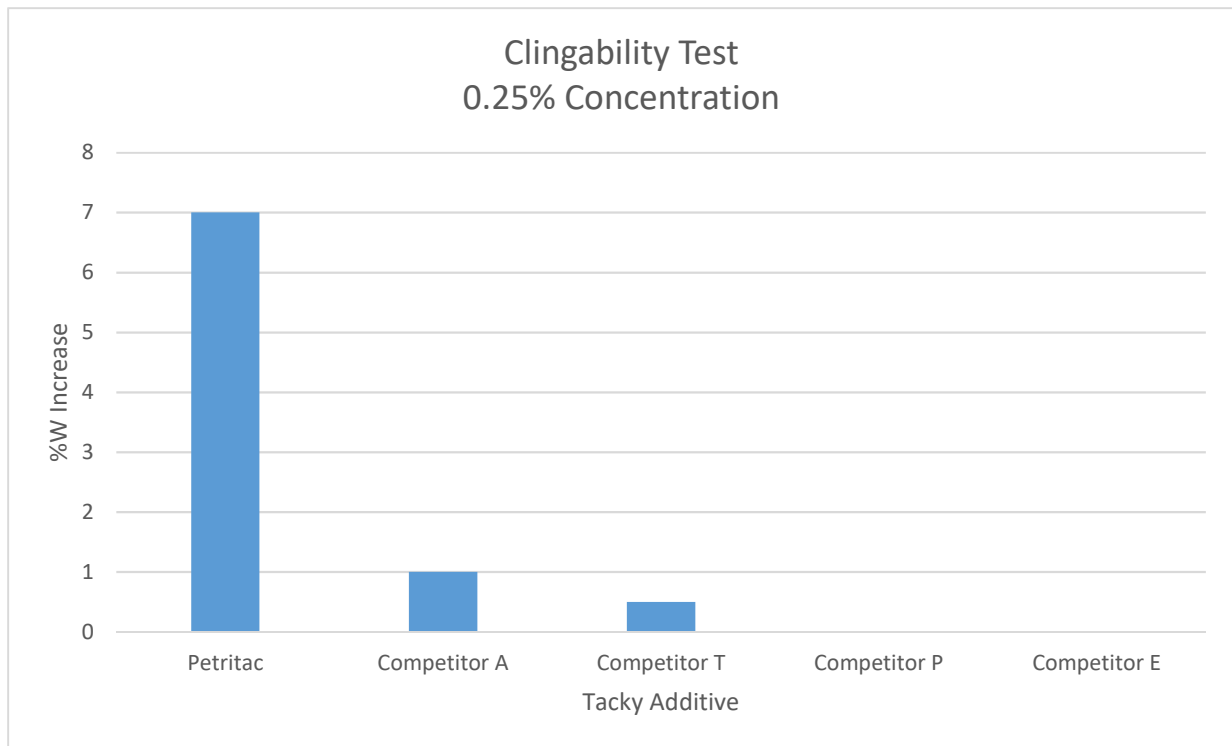
Test Oil: Oil with known concentration of tacking agent

##### Parameter Measured

Effectiveness of the tacking agent is measured by calculating the percentage of extra oil clinging to the spindle compared with the blank oil.



*The information contained within this publication is based on the present state of our knowledge. Any recommendations or conclusions are made without liability on our part. Values shown are typical and should not be construed as specification limits.*



## 2. String Test

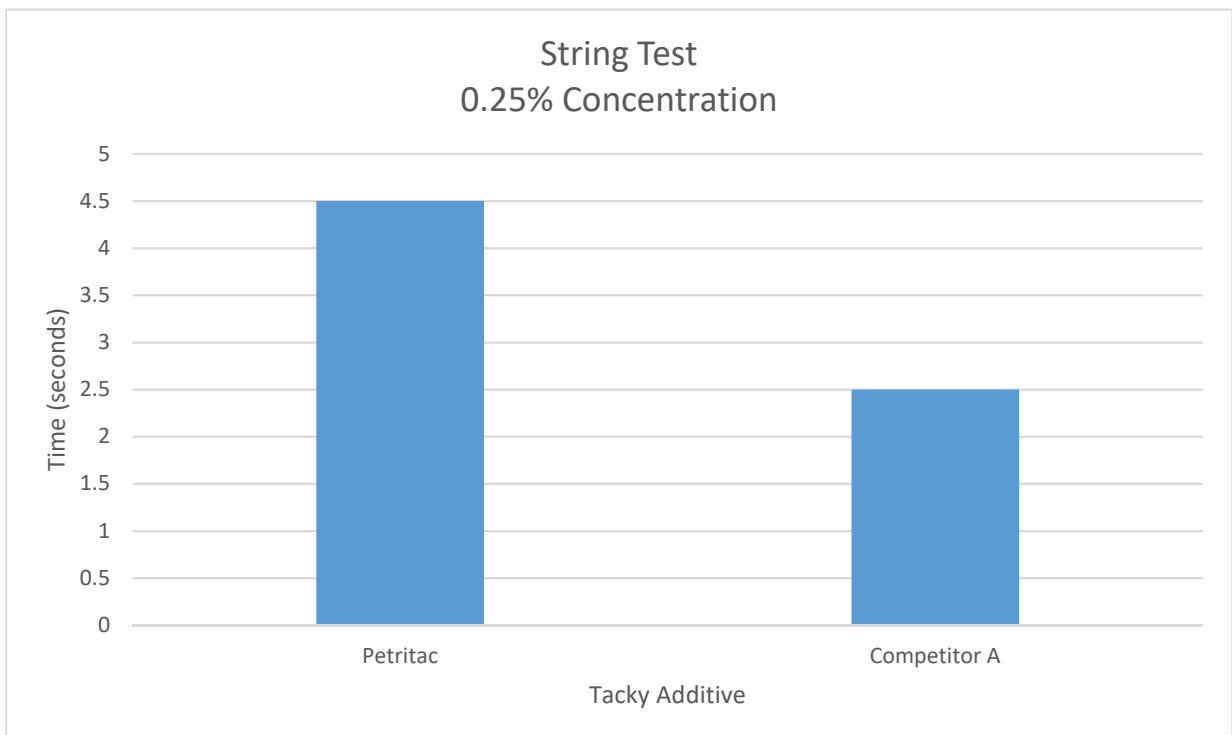
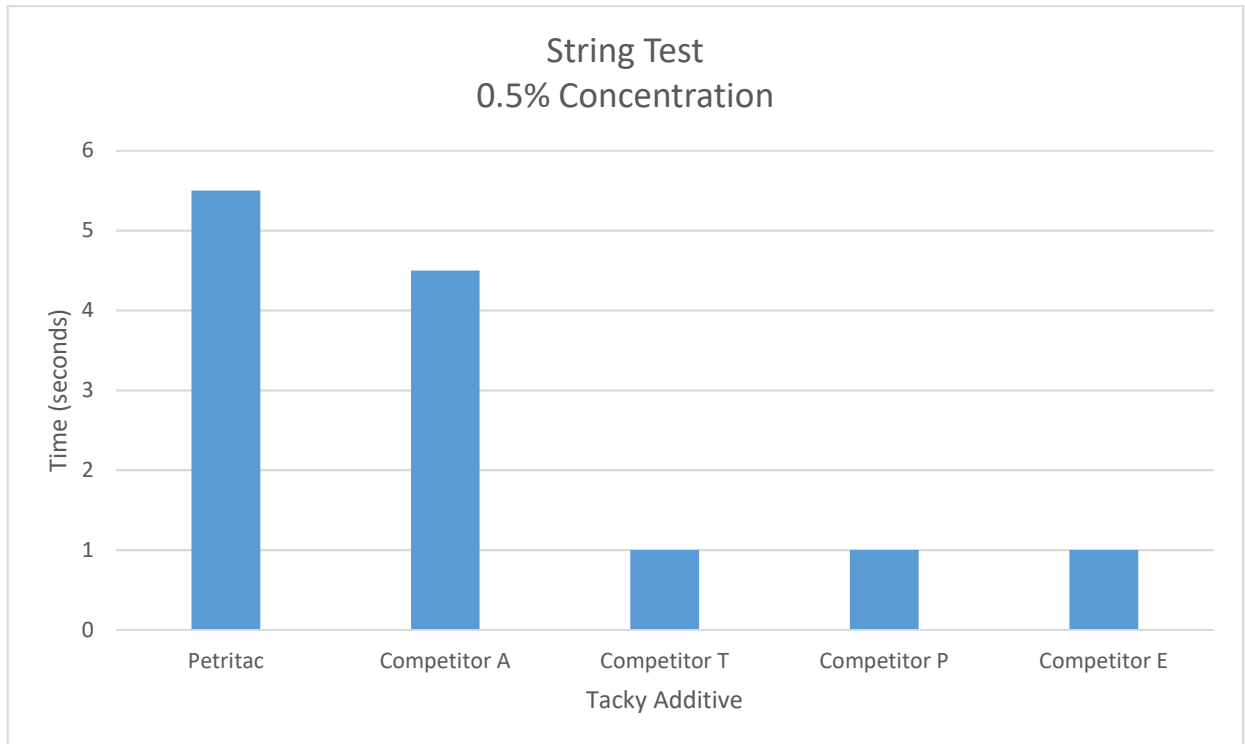
One feature of a tacking agent is the stringiness of the product. This property can be tested by the 'feel' of the experienced oil technologist. A test has been developed in an attempt to provide an objective visual approximation of this property.

### Test Procedure

A test solution of tacking agent in mineral oil is prepared. A Brookfield Viscometer No.1 spindle is suspended by a retort stand so that the base of the spindle is about 26cm from the base of the retort stand. The test solution is raised to the spindle such that the spindle is immersed by approximately 1cm. The test solution is then carefully lowered to the base of the retort stand.

### Parameter Measured

The time measured for the first break in the lubricant string to occur.



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