

## Tribol 1899

Special cleaning and solvent for Fluorine-based products

### Description

Castrol Tribol™ 1899 is a low-molecular weight perfluoropolyether solvent and diluent that can be used as a replacement for ozone depleting solvents being restricted by the Government. It is used as a solvent for Castrol Braycote 2115 series, Optileb GR 9830 series and the Braycote Inertox series.

Tribol 1899 is safe, inert and non-toxic. It has ZERO Ozone Depletion Potential and is not classified as a VOC (Volatile Organic Carbon) by the Environmental Protection Agency. It contains no chlorofluorocarbons (CFCs), chlorine or bromine. It requires few safeguard precautions or use-restrictions and is completely compatible with all metals, rubbers and most commercially available elastomers and plastics.

Tribol 1899 is formulated to be fully miscible with Castrol Braycote 2115 series, Optileb GR 9830 series and the Braycote Inertox series and is also fully miscible with chlorotrifluoroethylene (CTFE) oils above + 45 °C. It is the recommended solvent/diluent for PFPE oils and greases.

Tribol 1899 performs well in many electronic and semiconductor cleaning functions, such as: pump cleaning, degreasing, dewatering, vapor blanketing, reducing flash point, eliminating trace residue and other niche cleaning applications. Possessing a relatively high boiling point and low evaporation rate.

Tribol 1899 solvent is well suited for cleaning operations where:

- solvents are applied to hot components
- solvents are heated prior to application
- solvents are pressure-sprayed onto components
- solvents are used in forced-air stream cleaning
- extended immersion baths are required

### Application

In applications which require the performance of PFPE and PTFE lubricants, such as Braycote 2115 series, Optileb GR 9830 series and the Braycote Inertox series, Tribol 1899 is used as cleaning fluid and diluent for the mentioned lubricants.

### Advantages

- Does not deplete ozone
- Free from CFCs, chlorine or bromine
- Low consumption due to low evaporation rate
- Chemically inert, non-toxic, odour and colourless
- Compatible with metals, rubber and many elastomers
- Compatible and mixable with PFPE and CTFE oils and greases and perfluorocarbon fluids
- No flashpoint

## Typical Characteristics

Name	Method	Units	Tribol 1899
Appearance	Visual	-	clear liquid
Density @ 25°C / 77°F	ISO 12185 / ASTM D4052/DIN 51757	kg/m <sup>3</sup>	1690
Kinematic Viscosity @ 25°C / 77°F	(DIN EN) ISO 3104 / ASTM D445	mm <sup>2</sup> /s	0.75
Flash Point - open cup method	(DIN EN) ISO 2592 / ASTM D92	°C/°F	None
Boiling Point	-	°C/°F	90/194
Surface Tension @ 25°C / 77°F	ASTM D1331	dyn/cm	14
Vapour Pressure @ 25°C / 77°F	ASTM D2878	torr	100
Heat of vapourisation @ boiling point	-	cal/g	17
Water solubility	-	ppm	14

Subject to usual manufacturing tolerances.

Tribol 1899  
25 Jun 2018  
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