

## Castrol Brayco 1625

Perfluoroether Lubricating Oil

### Description

Castrol Brayco 1625 is a clear water white perfluoroether oil. It is odorless, nonflammable and generally chemically inert. It exhibits good thermal stability, is compatible with most commonly used propellants, fuels and oxidizers, and virtually unaffected by high gamma radiation doses. Other characteristics include excellent lubricating properties, good dielectric properties, excellent shear stability and a low order of acute toxicity. Castrol Fluoroclean™X100 can be used to remove this lubricant. Refer to the data sheet for Fluoroclean X100 for information regarding this product

### Application

Brayco 1625 is an excellent lubricating oil for precision bearings. It can also be utilized as a damping fluid, flotation fluid, and as a lubricant for electrical contacts. Perfluorinated fluids, in general, exhibit excellent shelf lives due to their intrinsic inertness

### Typical Characteristics

TEST METHOD	DESCRIPTION	RESULT
D 287	Specific Gravity @ 16/16°C (60/60°F)	1.9137
	Pounds per Gallon @ 16°C (60°F)	15.937
D 445	Kinematic Viscosity, cSt @ 99°C (210°F)	11.6
	@ 38°C (100°F)	97.47
D 2270	Viscosity Index	117
D 97	Pour Point, °C (°F)	-36 (-30)
D 972	Evaporation Loss, % wt 22 hrs @ 149°C (300°F)	0.79
Knudsen	Vapor Pressure, torr @ 20°C (68°F)	$<9 \times 10^{-5}$
	@ 100°C (212°F)	$<9 \times 10^{-3}$

## Additional Information

### Temperature Range

-30°C to 204°C (-22°F to 400°F)

### Limitations

Brayco 1625 is compatible with all commonly utilized materials, plastics, and elastomers. It is very slightly soluble in most organic solvents and materials other than highly fluorinated solvents. Lewis Acids such as  $AlCl_3$ , can adversely affect Brayco 1625 at elevated temperatures. Newly exposed rubbing surfaces of aluminum, titanium and magnesium may react with this product under certain conditions. Such systems should be thoroughly evaluated. Surfaces must be well cleaned of organic rust inhibitors prior to grease application to insure proper lubrication.

### Packaging

Brayco 1625 is available in 2 ounce (AVDP) bottles.

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Castrol Industrial North America Inc. 150 West Warrenville Road, 605 3E Naperville, IL 60563  
Tel: (877) 641 1600 Fax: (877) 648 9801

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