Product Data

Brayco 1625

Perfluoroether Lubricating Oil

Description

Castrol Brayco™ 1625 is a clear water-white perfluoroether oil. It is odorless, non-flammable 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

Name	Method	Units	Brayco 1625
Specific Gravity @ 16°C / 60°F	ASTM D287	-	1.914
Density of finished grease @ 16°C / 60°F	In-house test	lb/gallon	15.94
Kinematic Viscosity @ 99°C / 210°F	ISO 3104 / ASTM D445	mm²/s	11.6
Kinematic Viscosity @ 38°C / 100°F	ISO 3104 / ASTM D445	mm²/s	97.47
Viscosity Index	ISO 2909 / ASTM D2270	-	117
Pour Point	ISO 3016 / ASTM D97	°C/°F	-36 / -30
Evaporation Loss, 22 hrs @ 149°C / 300°F	ASTM D972	%wt	0.79
Knudsen Vapour Pressure @ 20°C / 68°F	-	Pa	0.01197
Knudsen Vapour Pressure @ 100°C / 212°F	-	Pa	1.197

Additional Information

Temperature Range
-30ºC to 204ºC (-22ºF to 400ºF)

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 free of organic rust inhibitors prior to grease application to insure proper lubrication.

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