



Product Data

Castrol Fluoroclean™ X100

Description

Castrol Fluoroclean X100 is a high performance, environmentally friendly, non- flammable solvent. It is chemically inert, non-flammable, very low in toxicity, and compatible with most metals, plastics, and elastomers. Castrol offers two perfluorinated solvents: Fluoroclean X100 and Fluoroclean HE. Fluoroclean X100 is recommended for use in grease plating applications and Fluoroclean HE is recommended for use in cleaning perfluorinated oils and greases. See the data sheet for Fluoroclean HE for more information.

Application

Fluoroclean X100 is designed for use as a substitute for Freon® 113 (CFC-113)* in grease plating perfluorinated lubricants and other halogenated lubricants, including Castrol Braycote® 600EF, 601EF, 602EF, 603EF, 631, 631A, 640, 640AC, 802, 802RP, 803, 803RP, 803EP, 804, 805, 806, 806RP, 807, 807RP, 812, 815Z, 1613, 1616, 1624, 1625, 1632, 1636, 1721, 1722, 1723, 1724, 1728, 1729, Castrol Endurex® 1000 and 3100, and Castrol Microcote® GS, LVP and 296.

* Freon® 113 is a registered trademark of DuPont.

Characteristics

DESCRIPTION	CFC-113*	FLUOROCLEAN X100
Basic Formula	C ₂ F ₃ Cl ₃	C ₆ F ₁₁ NO
Average Molecular Weight	187.4	299
Physical State @ 25°C (77°F)	Liquid	Liquid
Boiling Point, °C (°F)	47.6 (118)	51 (124)
Liquid Density @ 25°C (77°F), g/mL	1.57	1.70
Liquid Viscosity @ 20°C (68°F), cSt	0.68	0.68
Surface Tension, cm @ 25°C (77°F), dynes/cm	19.0	13.0
Vapor Pressure @ 25°C (77°F), psi	6.46	5.29
Heat of Vaporization @ boiling point, cal/g	35	25
Solubility of H ₂ O @ 25°C (77°F), ppm by wt	110	14
Solubility of Fluorocarbons	High	High
Flash Point, °C	None	None
Hildebrand Solubility Parameter (estimated value)	7.3	6.3
Ozone Depletion Potential	0.8	0.000
Residue, ppm	-	<1

* Not a Castrol product, listed for comparative purposes only.

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. Castrol will not accept liability if the product is used other than in the manner or with the precautions or for the purpose(s) specified. Before using the product other than directed, please contact Castrol for consultation.

Additional Information

Compatibility

Fluoroclean X100 is not an effective solvent for mineral oil or silicone oil based lubricants.

Packaging

Fluoroclean X100 is available in 3.5 pound containers, 14 pound (one gallon) amber glass containers and 70 pound pails. Larger package sizes are available upon request.

Castrol Fluoroclean X100
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Fluoroclean X100 and the Castrol logo are trademarks of Castrol Limited.

All reasonable care has been taken to ensure that the information contained in this publication is accurate as of the date of printing. However, such information may, nevertheless, be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol Ltd products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.

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