

C. SPECIFICATION FOR LUBRICANT CLEANING AGENT

1. SCOPE

This document covers the technical specifications of a fluorinated, fast evaporating “ozone safe” solvent consisting blended fluorinated alkanes for Cleaning surface of Substrate for lubricants in section A and B.

2. APPLICABLE DOCUMENTS

The following standards form a part of this specification to the extent specified herein.

3. APPLICABLE STANDARDS

Viscosity	ASTM D 445
Boiling point	ASTM D 92
Specific Gravity	CN-TM-084
Flash Point	ASTM D 93

4. CHEMICAL COMPOSITION

An azeotrope-like fluorinated solvent blend consisting of 1,2-trans-dichloroethylene, HFC-365mfc(1,1,1,3,3-petafluorobutane). It should have Zero Ozone Depletion Potential (ODP) and very low global warming potential.

5. PHYSICAL, THERMAL AND THERMO-VACUUM PROPERTIES

S.No	PROPERTY/DESCRIPTION	TEST METHOD	UNIT	SPECIFICATIONS
1	Appearance	Visual	-	Clear and Bright (Visual)
2.	Odour	-	-	Slight
3.	Specific Gravity	CN-TM-084	-	1.1 -1.3 (CN-TM-084)
4	Boiling Point	D 92	°C	40-45 °C (D-92))
5.	Flash Point	D 93	°C	None °C (D-93)
6.	Water Solubility @ 20 °C		% wt	0.05-0.07 %wt
7.	Viscosity	ASTM D 445	cPs	0.60-0.70 cPs (ASTM D 445)
8.	Refractive Index @ 20 °C		-	1.3-1.43
9.	Vapour Pressure @ 32 °F @ 77 °F @ 122 °F	Knudsen	Pa	(Knudsen) 250-275 Pa 600-650 Pa 1450-1500 Pa

6. SUPPLY CONDITION

The product shall be supplied in 3 numbers of 1 Quart (950 ml) bottles separately in sealed condition.

7. ACCEPTANCE CRITERIA

- Certificate of compliance

- Certificate of analysis with Batch number reference as per parameters mentioned in section-5.
- Batch number reference

8. IDENTIFICATION

The material shall be given proper identification to ensure traceability to the test certificates.

9. PRESERVATION, PACKING AND DISPATCH

The product shall be supplied in 3 numbers of 1 Quart (950 ml) bottles separately in sealed condition.

10. CERTIFICATES AND REPORTS

Supplier/manufacturer shall furnish the following certificates and test reports

- The supplier should furnish appropriate Certificate of compliance (CoC) indicating the purchase order number.
- Certificate of analysis with Batch number reference as per parameters mentioned in section-5.
- Batch number reference.