

Laboratory	HPCL Delhi Quality Control Laboratory, Delhi Terminal, Tikri Kalan, Nh-10, New Rohtak Raod, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	12.09.2013
Certificate Number	T-1628	Valid Until	11.09.2015
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			Range of Testing / Limits of Detection
I. PETROLEUM PRODUCTS						
			BIS IS 1448	ISO	ASTM/IP	
1.	MS, SKO, HSD, Food Grade Hexane, Solvent 1425, MTO/ Solvent 2445	Appearance	Visual			Clear Bright Hazy Not Clear Bright
2.	MS, HSD, SKO	Color	Visual			Qualitative
3.	MS, SKO, HSD, LDO, FO, Food Grade Hexane, Solvent 1425, MTO/ Solvent 2445/ATF	Density	P:16 (1990)/ P-32 (1992)		D 1298-2012 D 4052-2011	650 to 1000 Kg/m ³
4.	MS, SKO, HSD, Food Grade Hexane, Solvent 1425, MTO/ Solvent 2445/ATF	Distillation Rec °C, Residue IBP, DP/FBP	P:18 (1991)		D 86-2012	30 to 370 °C
5.	SKO, HSD, MTO/ Solvent 2445/ATF	Flash Point Abel	P:20 (1998)			10 to 70 °C
6.	HSD, LDO, FO	Flash Point PMCC	P:21(1992)		D 93-2012	30 to 360 °C
7.	HSD, LDO	Viscosity, cSt @ 40 °C	P:25 (1976)	3104-1993	D 445-2012	1 to 20

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			BIS IS 1448	ISO	ASTM/IP	
8.	FO	Viscosity, cSt @ 50 °C	P:25 (1976)	3104-1993	D 445-2012	15 to 300
9.	MS, SKO, HSD, LDO, Food Grade Hexane, Solvent 1425, MTO/ Solvent 2445/ATF	Copper Corrosion test	P:15 (2004)		D 130-2012	1a to 4b
10.	HSD, LDO	Pour Point	P:10 (1970)		D 97-2012	-30 to +21
11.	MS, HSD/ATF	Total Sulphur		20847-2004, 8754-2003	D 4294-2010	0.0015 % wt to 0.3 % wt
12.	MS, Solvent 1425, MTO/ Solvent 2445/ATF	Existing Gum	P:29 (2004)	6264-1995	D 381-2012	5 to 50 g/m ³
13.	SKO/ATF	Smoke Point	P:31 (1968)	3014-1993	D 1322-2012	10 to 35 mm
14.	HSD	Calculated Cetane index			D 4737-2010	Upto 70
15.	LDO, FO HSD	Water Content	P:40 (1987)			0 to 25 % volume
16.	LDO, FO	Sediments	P:30 (2013)		D 3735-1999	0 to 15.0 %
17.	Food Grade Hexane, Solvent 1425, MTO/ Solvent 2445/ATF	Doctor Test	P:19 (1989)			-ve/+ve

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			BIS IS 1448	ISO	ASTM/IP	
18.	Food Grade Hexane	Non Volatile Residue,	IS -3470-1966 Appendix E			0.0001 to 5.00 g/100ml
19.	Food Grade Hexane	Reaction of Non Volatile Residue	IS-3470-1966, Appendix F			-ve/+ve / Qualitative
20.	SKO, MTO/ Solvent 2445, Solvent 1425, Food Grade Hexane/ATF	Colour	P:14 (1960)		D 156-2012	0 to 30 unit saybolt
21.	MS	Research Octane Number	P:27 (2013)	5164-2005	D 2699-2012	40 to 100
22.	ATF	Acidity, Total	P: 113 (1983) (RA 2006)			0.001 mg KOH/g to 0.1 mg KOH/g
		API Gravity	IS1571: 2008 (Table-1/ Note 9)			30 to 80
		Freezing Point	P:11 (2004) (RA 2004)		D 2386-06/2010	(-) 70 °C to 0 °C
		Kinematic Viscosity at (-20) °C	P: 25 (1976) (RA 2002)		D 445-09/2010	1.0 cst to 10 cst
		Electrical Conductivity		6297: 1997	IP 274/2009	20 pS/m to 1000 pS/m
		Naphthalene	P: 118 (1985) (RA 2002)		D 1840-07/2010	0.01 % to 5 %

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			BIS IS 1448	ISO	ASTM/IP	
	ATF	Specific Energy			D 3338-09/2010	30 to 60 MJ/kg
		Water Reaction Interface Rating Separation Rating	P: (1977) (RA 2013)		D 1094-07/2010	0 to 4 1 to 3
		Silver Strip Corrosion			IP 227-1999	0 to 4
		Aromatics, Content	P: 23 (2004)			5 % to 50 % by volume

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