

PT. TANESHA WAHANAMAS

Tangerang City Business Park Blok E-2
Jl. Jend. Sudirman No.1 Cikokol Tangerang
Phone : +6221-55782341-43
Fax : +6221-55782347

CERTIFICATE OF ANALYSIS

PRODUCT NAME : NAFFCOOL # 207 FP
DESCRIPTION : Fast Penetration Cutting Fluids
SAMPLE BATCH NO # 012.05002071 FPC
DATE : 29 June 2012

RESULTS :

PARAMETERS ANALYSIS	RESULTS
Flash point ,°C (ASTM D56)	140
Density,15°C (ASTM D4052)	0,825 Kg/dm ³
Viscosity at 40°C, mm/s (ASTM D445)	4,50
Appearance	Clear Amber Color Liquid
Solubility in Water	None (Water insoluble – Neat Oils)
Sulphur Content, %mass	0,15
Copper Strip, 100°C, 3 hrs (ASTM D130)	1
4 Ball Wear Test, mm (ASTM D4172)	0,98

Analyzed by
Product Development Dept,
(Quality Control Laboratory)

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CERTIFICATE OF ANALYSIS
LIGHT WHITE OIL PHARMA GRADE 15 USP

TEST REPORT NO. : CP/ F/63-L/13
 QTY. DESPATCHED : 160 X 195 KGS
 BATCH NO. : CP/ L/WOP/0213118-E
 MFG. DATE : 18/02/2013
 EXPIRY DATE : 17/02/2016

DATE : 18/02/2013
 CONSIGNEE :

SR No	TEST PARAMETERS	TEST METHODS	SPECIFICATIONS		TEST RESULTS
			MIN.	MAX.	
1.	Description	PHYSICAL	Bright & Clear		Bright & Clear
2.	Colour , Saybolt	ASTM D- 156	+30		+30
3.	Solubility	U.S.P.	Insoluble in water & Alcohol; Soluble in Ether & Chloroform.		Insoluble in water & Alcohol; Soluble in Ether & Chloroform.
4.	Specific Gravity @ 25 ^o C	U.S.P.	0.818	0.880	0.841
5.	Density @ 29.5 ^o C	ASTM D 1298	To Report		0.835
6.	Viscosity @ 40 ^o C, cSt	ASTM D 445	14	18	15.02
7.	Viscosity @ 25 ^o C,cSt	ASTM D 445	To Report		28.92
8.	Neutrality	U.S.P.	Pass as per U.S.P.		Passes as per U.S.P.
9.	Readily Carbonisable Substances	U.S.P.	Pass as per U.S.P.		Passes as per U.S.P.
10.	Solid Paraffins	U.S.P.	Pass as per U.S.P.		Passes as per U.S.P.
11.	Polycyclic Aromatic Hydrocarbon (In the range of 260 – 350 nm)	U.S.P.	Pass as per U.S.P.		Passes as per U.S.P.
12.	Average Molecular Weight	ASTM D 2520	To Report		320