

Laboratory Himadri R & D Center, Unit of Himadri Speciality Chemical Ltd.,
Department of Chemical Testing Laboratory, At & Post Mahistikry
Unit, P.S.- Haripal, Dist. Hooghly, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5348

Page 1 of 2

Validity 18.12.2017 to 17.12.2019

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

CHEMICAL TESTING

I. PETROLEUM & PRODUCTS				
1.	CBFS Oil	Specific Gravity	ASTM D -1298 : 2012b (RA 2017)	0.8 to 2.0
		Saybolt Viscosity (SUS)	ASTM D - 88: 2007 (RA 2013)	28 s to 200 s
		Ash Content	ASTM D - 482 : 2013	0.01 % to 1.0 %
		Sulphur Content	ASTM D - 129 : 2013	0.1 % to 10 %
		Flash Point (PMCC)	ASTM D - 93 : 2016 (Procedure A, Manual)	60 °C to 250 °C
		Asphaltene	ASTM D - 6560 : 2012	0.5 % to 30 %
		Water Content(Moisture)	ASTM D - 95 : 2013e1	0.1 % to 10 %
		Gross Calorific Value	ASTM D - 240 : 2017	8000 kcal/kg to 11000 kcal/kg
II. INDUSTRIAL AND FINE CHEMICALS				
2.	Carbon Black	Iodine No.	ASTM D -1510 : 2016a	27 mg/g to 160 mg/g
		Oil Absorption No. (OAN/DBP)	ASTM D - 2414: 2016e1	60 cc/100g to 130 cc/100g
		Compressed Oil Absorption No. (COAN/CDBP)	ASTM D - 3493 : 2016	60 cc/100g to 110 cc/100g
		Nitrogen Surface Area (N2SA)	ASTM D - 6556 :2016	25 m ² /g to 125 m ² /g
		Total and External Surface Area by Nitrogen Adsorption (STSA)	ASTM D - 6556 : 2016	20 m ² /g to 120 m ² /g
		Tint Strength	ASTM D - 3265 : 2017	52 ITRB#3 to 125 ITRB#3

Laboratory Himadri R & D Center, Unit of Himadri Speciality Chemical Ltd.,
Department of Chemical Testing Laboratory, At & Post Mahistikry
Unit, P.S.- Haripal, Dist. Hooghly, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5348

Page 2 of 2

Validity 18.12.2017 to 17.12.2019

Last Amended on --

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Pour Density (PD)	ASTM D -1513:05(2012)	290 kg/m ³ to 560 kg/m ³
		pH Value	ASTM D-1512 : 2015	4 to 13
		Ash Content	ASTM D-1506 : 2015	0.001 % to 2.0 %
		Sieve Residue - On 325Mesh - On 100 Mesh - On 35 Mesh	ASTM D – 1514 : 2015	0.01 % to 2.0 % 0.001 % to 2.0 % 0.001 % to 2.0 %
		Fines	ASTM D-1508:2012	1 % to 50 %
		Attrition	ASTM D-1508:2012	1 % to 52 %
		Pellet Hardness	ASTM D-5230:2014	5 gf to 200 gf
		Heating Loss	ASTM D-1509 : 2015 (RA 2015)	0.1 % to 60 %
		Toluene Discoloration	ASTM D-1614:2009 (RA 2011)	20 % to 100 %