



TECHNICAL DATA SHEET FOR HYDRAULIC BRAKE FLUID DOT-3

Sr.No.	Nature of Test	Requirements
I	Appearance	Clear, homogenous liquid meets free form Water, dirt, sediments.
II	Color	N.A.
III	Equilibrium reflux Boiling pt., °C	205min.
IV	Wet ERBP, °C	140min.
V	Kinematics Viscosity, mm ² /Sec. a) at minus 40 °C b) at 100 °C	1500max. 1.5min.
VI	pH Value	7.0 to 11.5
VII	Brake Fluid stability a) High Temperature stability change in ERBP, °C Max. b) Chemical stability °C change in ERBP of mixture °C max.	3+0.05 for each degree above 225 °C 3+0.05 for each degree above 225 °C
VIII	Corrosion Test: at 100 °C for 120hrs. a) Mass change, mf/cm ² , max Tinned Iron Steel Aluminum Cast Iron Brass Copper b) Connection of Metal Strip c) Appearance of test fluid in jar at 23 + 5 °C d) Crystalline deposit it on the walls or jar and metal strips. e) Sediments, % by volume f) pH of Test Fluid g) Effect on Rubber cup(SBR) i) Appearance ii) Hardness Decrease(IRHD) iii) Base Diameter Increase, mm	0.2 0.2 0.1 0.2 0.4 0.4 No visible pitting or Etching No jelling None. 0.10Max 7.0 to 11.5 No disintegration as Evidenced by blisters of Sloughing 15Max. 1.6Max



Sr. No.	Nature of test	Requirements
IX	Fluidity & appearance at low temperature a) at Minus 40 °C for 144 hrs. i) Sludging, Sedimentation, Crystallization or stratification. ii) Bubble flow time, Second b) at Minus 50 °C for 6hrs. i) Sludging, Sedimentation, Crystallization or stratification ii) Bubble flow time, Second	None 10Max. None 35Max.
X	Evaporation test at 100 °C a) Loss in Mass% b) Abrasiveness or grittiness c) Pour point of residue, °C	80Max. None < -5
XI	Water Tolerance Test: a) at Minus 40°C for 120hrs. i) Clarity ii) Sludging, Sedimentation, Stratification, or Crystallisation iii) Bubble flow time, Second b) at 60 °C for 24hrs. i) Stratification ii) Sediments, % by Volume	Clear None 10Max. None 0.15Max.
XII	Compatibility test a) at - 40 °C for 24hrs. i) Clarity ii) Sludging, Sedimentation, Crystallisation, or Stratification B) at 60 °C for 24hrs. i) Stratification ii) Sediments, % Volume	Clear None None 0.05Max.
XIII	Resistance to Oxidation a) Change in mass mg/cm ² i) Aluminum ii) Cast Iron b) Condition of Metal strips	0.05Max. 0.3Max. No visible pitting or etching & no gummy deposits.
XIV	Effects on Rubber cups (SBR) a) at 70 °C for 70h i) Base diameter increase, mm ii) Hardness decrease, IRHD iii) Appearance b) at 120 °C for 70h i) Base diameter increase, mm ii) Hardness decrease, IRHD iii) Appearance	0.17 to 1.6 10Max. No disintegration as evidenced by blisters, sloughing & stickiness 0.17 to 1.6 15Max No disintegration as evidenced by blister, sloughing & stickiness.