PRODUCT INFORMATION

DOT 5.1

Brake Fluid Dot 5.1

N°: 922040

Description:
DOT5.1 is a glycol ether based hydraulic brake fluid, specifically formulated to exceed the requirements of the internationally recognised hydraulic brake fluid standards: FMVSS No 116 DOT5.1, ISO 4925 & JIS K2233
The material composition and performance will ensure the safe and reliable operation of vehicle braking systems, the key points being :-
High Boiling Point – Comfortably exceeds the minimum ERBP and WERBP requirements, therefore minimising the risk of vapour lock under extreme conditions
Reduced Viscosity – our product is formulated to enhance the system responsiveness in very cold conditions whilst preventing leakage and maintaining good lubricity at high operating temperatures
Corrosion Inhibition – fully protecting the complete range of metallic components within the braking system against corrosion damage and potential system failure.
Rubber Compatibility – promotes the correct rubber swell / hardness of all rubber components to maximise the working life of system seals, ensuring a safe system operation
Fluid Compatibility - can be safely mixed with other brake fluids meeting the DOT 3 and DOT 4 specification. It is not compatible with a Mineral Oil based fluid.

PRODUCT HANDLING and STORAGE

Brake fluids can be stored in bulk in mild steel tanks and drums, and a suitable gauge high density polyethylene container. Please note, it is not recommended Brake Fluids are stored in any low density polyethylene containers. The use a desiccant unit in the tank vent is recommended to prevent the absorption of moisture during storage.
Brake fluids do not present a significant health hazard when used under normal conditions however in line with good industrial practice the use of appropriate personal protective equipment is recommended. See the product MSDS for details.
Attention must be paid to the avoidance of contamination of brake fluids, water will dramatically lower the boiling point of the fluid reducing safely margins, contamination with mineral oil based products can result in degradation of system seals and potential system failure

CORROSION
Typical results

Tinned Iron	0.01 mg/cm2
Steel	0.01 mg/cm2
Aluminum	0.00 mg/cm2
Cast Iron	0.02 mg/cm2
Brass	0.03 mg/cm2
Copper	0.03 mg/cm2
Appearance of Teststrips	Pass-NO pitting

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PROPERTIES

Item №	Description of characteristics	Method	DOT5.1	FMVSS116
1	Appearance	Visual	Clear to Amber liquid, free from suspended matter	Not Specified
2	Specific Gravity 15/15°C	ASTM D 4052	1.065	No specified
3	Equilibrium Reflux Boiling Point °C	SAE J1705	271	≥ 260 °C
4	Wet Equilibrium Reflux Boiling Point °C	SAE 1705	184	≥ 170 °C
5	-40°C Kinematic Viscosity, cSt	SAE 1705	812	≤ 900 cSt
6	100°C Kinematic Viscosity, cSt	SAE 1705	2.28	1.5 min
7	pH (50% vol.)	ASTM D 1121	7.3	7.0 – 11.5
8	Water Content	ASTM D 1123	0.10	Not Specified

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