

DOT4 Synthetic Brake Fluid

Advantages

- ⊙ Boric acid ester brake fluid with high boiling point of dry/wet equilibrium reflux, outstanding high/low temperature property
- ⊙ Excellent anti-rust, anti-corrosion, anti-oxidation and compatibility with rubber, ensuring safe and stable braking actions

Performance specification

The product meets the following specifications:

- ⊙ FMVSS NO.116 DOT4
- ⊙ GB 12981-2003 HZY4

Applications

- ⊙ Suitable for brake system of various passenger cars and heavy duty trucks with hydraulic brake, and clutch system of engineering machinery, meeting application requirements of vehicles under conditions of torrid, cold or freezing weathers, or in mountain areas

Typical properties

Items		Specifications	Typical properties		
Equilibrium reflux boiling point (ERBP), °C		≥ 230	260		
Wet equilibrium reflux boiling point (WERBP), °C		≥ 155	163		
Kinematic viscosity (-40°C), mm ² /s		≤ 1800	1175		
Kinematic viscosity (100°C), mm ² /s		≥ 1.5	2.127		
pH		7.0~11.5	8.9		
Metal corrosivity (100°C, 120h) Mass variation, mg/cm ²	Tin	± 0.2	0.00		
	Steel	± 0.2	0.00		
	Aluminium	± 0.1	0.00		
	Cast iron	± 0.2	0.00		
	Red copper	± 0.4	0.09		
	Brass	± 0.4	0.10		
Evaporation property (100°C, 168h)	Evaporation loss, %	≤ 80	72		
	Residuum pour point, °C	≤ -5	< -5		
Rubber compatibility (70h)	SBR cup	70°C	Root cylinder increment, mm	0.15~1.4	0.52
			Hardness variation, IRHD	0~10	4
		120°C	Root cylinder increment, mm	0.15~1.4	0.67
			Hardness variation, IRHD	0~15	6
	EPDM cup or test piece	70°C	Volume change, %	1~10	1.44
			Hardness variation, IRHD	0~10	1
		120°C	Volume change, %	1~10	2.35
			Hardness variation, IRHD	0~15	3

Precautions in application

- ⊙ Avoiding splash on surface of painted part
- ⊙ With hygroscopicity, requiring airproof storage after unsealing
- ⊙ Avoiding pollution from dirt, mineral oil, fuel and water, otherwise causing malfunction brake
- ⊙ With toxic materials such as polyglycol ether, avoiding eating by accident, keeping out of reach of children