



RAVENOL DOT 5.1



ART.-NR. 1350602

1 L | 1350602-001

SPECIFICATIONS ISO 4925 CLASS 5-1 | FMVSS 116 DOT 5.1 | SAE J1704

RAVENOL DOT 5.1 is a brake fluid for the use in all vehicles with optimum ABS characteristics. There is a chemical stability and it is provided with additives which save the best lubrication efficiency.

Because of the special formulation of **RAVENOL DOT 5.1** the international specifications SAE J1704, ISO 4925 and the safety regulations FMVSS 116 DOT 5.1 from the United States of America are exceeded.

Application Notes

RAVENOL DOT 5.1 can be used in all vehicles for which the DOT 5.1 specification for brake fluids is required. It is suitable for all hydraulic brake systems with synthetic fluids.

RAVENOL DOT 5.1 is miscible with all known brake fluids of the same specification.

Characteristics

RAVENOL DOT 5.1 offers:

- optimum ABS characteristics
- chemical stability
- best lubrication efficiency
- neutral behaviour against brake parts
- low viscosity at low temperatures
- miscible with all brake fluids of the same specification

Property	Unit	Data	Audit
Colour		hellgelb	visual
Density at 20°C	kg/m ³	1069	EN ISO 12185
Boiling point	°C	269	SAE J1704
wet boiling point	°C	187	SAE J1704
Viscosity at -40°C	mPa*s	810	SAE J1704



Property	Unit	Data	Audit
kinematic viscosity at 100°C	mm ² /s	2,16	ASTM D445
pH-Wert		7,49	FMVSS 116
High Temperature Stability	°C	0	FMVSS 116
Chemical Stability	°C	1,5	FMVSS 116
Evaporation loss	Gew%	68	FMVSS 116
Fluidity & Appearance at -40°C		i.O., 2s	FMVSS 116
Fluidity & Appearance at -50°C		i.O., 4s	FMVSS 116
Water Tolerance at -40°C		klar, 2s	FMVSS 116
Water Tolerance at +60°C		klar, keine Ablagerungen	FMVSS 116
Compatibility at -40°C		klar, keine Phasentrennung	FMVSS 116
Compatibility at +60°C		klar, keine Ablagerungen	FMVSS 116
Water content	Gew.-%	0,1	Karl Fischer
Corrosion Resistance			
Tinned Iron	? mg/cm ²	-0,01	FMVSS 116
–	Aussehen	gut	
Steel	? mg/cm ²	-0,004	FMVSS 116
–	Aussehen	gut	
Aluminium	? mg/cm ²	-0,02	FMVSS 116
–	Aussehen	gut	
Cast Iron	? mg/cm ²	-0,01	FMVSS 116
–	Aussehen	gut	
Brass	? mg/cm ²	-0,05	FMVSS 116
–	Aussehen	gut	
Copper	? mg/cm ²	-0,03	FMVSS 116
–	Aussehen	gut	
Zinc	? mg/cm ²	0,03	FMVSS 116
–	Aussehen	gut	



Property	Unit	Data	Audit
Aussehen der Flüssigkeit		i.O.	FMVSS 116
Ablagerungen	%	<0,05	FMVSS 116
pH-Wert		7,33	FMVSS 116
Veränderung des Durchmessers von Gummi		0,03	FMVSS 116
Veränderung der Härte	IRHD	-6	FMVSS 116
Erscheinungsbild		i.O.	FMVSS 116
Tinned Iron	? mg/cm ²	-0,01	FMVSS 116
–	Aussehen	gut	
Aluminium	? mg/cm ²	-0,01	FMVSS 116
–	Aussehen	gut	
Beständigkeit gegen Gummi			
SBR bei 70°C	Ø Veränderung, mm	0,44	FMVSS 116
—	Härte, IRHD	-6	FMVSS 116
—	Volumen, %	4,31	FMVSS 116
–	Aussehen	gut	
SBR bei 120°C	Ø Veränderung, mm	0,72	FMVSS 116
—	Härte, IRHD	-11	FMVSS 116
—	Volumen, %	8,47	FMVSS 116
–	Aussehen	gut	
EPDM bei 70°C (Anforderung aus SAE J1703)	Härte, IRHD	-2	FMVSS 116
—	Volumen, %	0,74	FMVSS 116
–	Aussehen	gut	
EPDM bei 120°C	Härte, IRHD	-3	FMVSS 116
—	Volumen, %	1,73	FMVSS 116
–	Aussehen	gut	
Naturell bei 70°C (Anforderung aus ISO 4925)	Ø Veränderung, mm	0,2	FMVSS 116
—	Härte, IRHD	-6	FMVSS 116



Property	Unit	Data	Audit
—	Volumen, %	3,62	FMVSS 116
—	Aussehen	gut	

All information correspond to the best of our knowledge to the actual situation of the cognitions and our development. Subject to alterations. All references made to DIN-norms are only for the description of the goods. There is no guarantee. In case there will be any problems please contact the technical service.

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