



Racing Brake Fluid 600 Factory Line

100% Synthetic Fluid – DOT 4
Very high boiling point : 312°C / 594°F

For hydraulic actuated brake and clutch systems

TYPE OF USE

All types of hydraulic actuated brake and clutch systems requiring a non-silicone synthetic fluid. Specially designed to resist to high temperature of racing actuated brake (steel or carbon) and clutch systems.

Exceeds DOT 5.1 and DOT 3 standards also, except for viscosity at -40°C (-40°F).

PERFORMANCE

STANDARDS : FMVSS 116 DOT 4 / SAE J 1703 / ISO 4925

Extreme thermal resistance and stability :

The very high boiling point (312°C / 594°F), superior to conventional DOT 5.1 non silicone base / DOT 5 silicone base fluids (260°C / 500°F mini) and DOT 4 (230°C / 446°F mini) enables an effective brake even under extreme conditions.

Efficient when rainy :

The very high wet boiling point (204°C / 399°F) superior to conventional DOT 5.1 non-silicone base fluid (180°C / 356°F mini) and DOT 4 (155°C / 311°F mini) enables to keep an efficient brake system when rainy. Indeed, DOT 3, DOT 4 and DOT 5.1 brake fluids have the property to absorb humidity in the air, which reduces their boiling points and increases the risk to get to “vapor lock” phenomena.

The wet boiling point is measured by humidifying the product with about 3.5 % of water.

RECOMMENDATIONS

Avoid mixing with polyglycols based brake fluid with lower performances.

Do not mix with silicone (DOT 5 silicone base) or mineral base fluids (LHM).

Store brake fluid in its original container, tightly closed to prevent absorption of moisture.

Aggressive chemical product if contact with hands, paint or varnish.

If skin contact, rinse thoroughly with water.

PROPERTIES

100% synthetic fluid, polyglycol bases.

Color	Amber
Dry boiling point	312 °C / 594 °F
Wet boiling point	204 °C / 399 °F
Viscosity at -40°C (-40°F)	1750 mm ² /s
Viscosity at 100°C (212°F)	2.5 mm ² /s

MOTUL RBF 600 Factory Line

TEST	Unit	Specification limits			RFB 600
		DOT 3	DOT 4	DOT 5.1	
Dry boiling point	°C	>205	>230	>260	312 (594°F)
Wet boiling point	°C	>140	>155	>180	204 (399°F)
Viscosity at -40°C (-40°F)	mm ² /s	<1500	<1800	<900	1750
Viscosity at 100°C (212 °F)	mm ² /s		>1.5		2.5
pH		7-11.5	7.4		
Effect on rubber SBR (Styrene-butadiene)					
Volume change at 70°C (70 hours)	mm		0.15-1.4		0.76
Softening (IRHD)			10 max		4.0
Disintegration			no		no
Volume change at 120°C (70 hours)	mm		0.15-1.4		1.05
Softening (IRHD)			15 max		7
Disintegration			no		no
Evaporation					
Loss at 100°C	weight %		80% max		50
Fluidity and appearance at low temperature					
Appearance at -40°C			clear		OK
Flow time	s		10 max		OK
Appearance at -50°C			clear		OK
Flow time	s		35 max		OK
Water tolerance					
Appearance at -40°C			clear		OK
Flow time	s		10 max		OK
Appearance at +60°C			clear		OK
Sedimentation	%		0.15 max		OK
Anti-corrosion properties : Weight variation					
Tinned iron	mg/cm ²		0.2 max		0.01
Steel	mg/cm ²		0.2 max		0.02
Aluminium	mg/cm ²		0.1 max		0.03
Cast	mg/cm ²		0.2 max		0.05
Tin	mg/cm ²		0.4 max		0.09
Copper	mg/cm ²		0.4 max		0.04