



# 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).

## PERFORMANCES

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

### Extreme thermal resistance and stability:

MOTUL RBF 600 FACTORY LINE very high boiling point (312°C / 594°F) is superior to conventional brake fluids DOT 5.1 non silicone base (260°C / 500°F mini) and DOT 4 (230°C / 446°F mini), and therefore enables effective brake even under extreme conditions.

### Efficient when rainy:

MOTUL RBF 600 FACTORY LINE very high wet boiling point (204°C / 399°F) is superior to conventional brake fluids DOT 5.1 non-silicone base (180°C / 356°F mini) and DOT 4 (155°C / 311°F mini), and therefore 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 3% 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 <sup>2</sup> /s
Viscosity at 100°C (212°F)	2.5 mm <sup>2</sup> /s

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<b>TEST</b>	<b>Unit</b>	<b>Specification limits</b>			
		<b>DOT 3</b>	<b>DOT 4</b>	<b>DOT 5.1</b>	<b>RBF 600</b>
<b>Dry boiling point</b>	°C	>205	>230	>260	312 (594°F)
<b>Wet boiling point</b>	°C	>140	>155	>180	204 (399°F)
Viscosity at -40°C (-40°F)	mm <sup>2</sup> /s	<1500	<1800	<900	1750
Viscosity at 100°C (212 °F)	mm <sup>2</sup> /s		>1.5		2.5
pH		7-11.5	7.4		
<b>Effect on rubber SBR (Styrene-butadiene)</b>					
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
<b>Evaporation</b>					
Loss at 100°C	weight %		80% max		50
<b>Fluidity and appearance at low temperature</b>					
Appearance at -40°C			clear		OK
Flow time	s		10 max		OK
Appearance at -50°C			clear		OK
Flow time	s		35 max		OK
<b>Water tolerance</b>					
Appearance at -40°C			clear		OK
Flow time	s		10 max		OK
Appearance at +60°C			clear		OK
Sedimentation	%		0.15 max		OK
<b>Anti-corrosion properties: Weight variation</b>					
Tinned iron	mg/cm <sup>2</sup>		0.2 max		0.01
Steel	mg/cm <sup>2</sup>		0.2 max		0.02
Aluminium	mg/cm <sup>2</sup>		0.1 max		0.03
Cast	mg/cm <sup>2</sup>		0.2 max		0.05
Tin	mg/cm <sup>2</sup>		0.4 max		0.09
Copper	mg/cm <sup>2</sup>		0.4 max		0.04

We retain the right to modify the general characteristics of our products in order to offer to our customers the latest technical development.

Product specifications are not definitive from the order which is subject to our general conditions of sale and warranty. – Made in France

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09/17