

# MOTUL RBF 600 FACTORYLINE



**DOT 4 100% synthetic fluid**

**for hydraulic actuated-brake and clutch systems**

**Very high boiling point : 593°F / 312° C**

## 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

Extreme thermal resistance and stability :

The very high boiling point (312°C / 593°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 (216°C / 420°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 the phenomena called " vapour lock ".

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.

Yellow colour.

Dry boiling point 312 °C / 593 °F

Wet boiling point 216 °C / 420 °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>	Unit	Specification limits			RESULT
		DOT 3	DOT 4	DOT 5.1	
Dry boiling point	°C	>205	>230	>260	312 (593°F)
Wet boiling point	°C	>140	>155	>180	216 (420°F)
Viscosity at - 40°C (- 40°F)	cSt	<1500	<1800	<900	1750
Viscosity at 100°C (212 °F)	cSt		>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 definitive from the order which is subject to our general conditions of sale and warranty. Made in FRANCE

MOTUL - 119 Bd Félix Faure - 93303 AUBERVILLIERS CEDEX - BP 94 - France - Tel 33 1 48 11 70 00 - FAX 33 1 48 33 28 - Web site : www.motul.com

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