



# Racing Brake Fluid 660 Factory Line

**100% Synthetic Racing Fluid – DOT 4**  
**Very high boiling point: 328°C / 622°F**

**For hydraulic actuated brake and clutch systems**

## TYPE OF USE

All types of hydraulic brake and clutch actuators requiring non-silicone synthetic fluid.  
Specially designed to resist to extreme temperature generated by racing carbon and ceramic brakes allowing minimizing air entrance for brake cooling.  
Can be also used with conventional steel discs and clutch systems actuators.  
Widely exceeds DOT 3, DOT 4 and DOT 5.1 standards (except for DOT 5.1 viscosity at - 40°C).

## PERFORMANCES

STANDARDS                      FMVSS 116 DOT 4 / SAE J1703

### Extreme thermal resistance and stability:

MOTUL RBF 660 FACTORY LINE very high boiling point (328°C / 622°F) is superior to conventional brake fluids DOT 5.1 (260°C / 500°F mini) and DOT 4 (230°C / 446°F mini), and therefore enables effective braking even in extreme conditions.

Provides better aerodynamic performance by reducing air entrance for brake cooling on cars.

### Efficient when rainy:

MOTUL RBF 660 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 efficient braking in wet conditions.

Brake fluids tend to absorb humidity from the air, which reduce boiling point and increase 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 polyglycol based brake fluids.

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 moisture absorption.

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	328 °C / 622 °F
Wet boiling point	204 °C / 399 °F
Viscosity at -40 °C (-40 °F)	1698 mm <sup>2</sup> /s
Viscosity at 100 °C (212 °F)	2.59 mm <sup>2</sup> /s

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

MOTUL - 119 Bd Félix Faure - 93303 AUBERVILLIERS CEDEX - BP 94 – Tel: 33 1 48 11 70 00 – Fax: 33 1 48 33 28 79. Web Site: [www.motul.com](http://www.motul.com)

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<u>TEST</u>	Unit	Specification limits			RBF 660
		DOT 3	DOT 4	DOT 5.1	
<b>Dry boiling point</b>	°C	>205	>230	>260	328 (622°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	1698
Viscosity at 100°C (212 °F)	mm <sup>2</sup> /s		>1.5		2.59
pH			7-11.5		7.15
<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
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			No freezing		OK
Bubble time	s		10 max		OK
Appearance at -50°C			No freezing		OK
Bubble 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		0.03
Steel	mg/cm <sup>2</sup>		0.2 max		0.01
Aluminium	mg/cm <sup>2</sup>		0.1 max		0.02
Cast iron	mg/cm <sup>2</sup>		0.2 max		0.1
Brass	mg/cm <sup>2</sup>		0.4 max		-0.04
Copper	mg/cm <sup>2</sup>		0.4 max		-0.05

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