



# 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>RFB 600</b> |
|--|-------------|-----------------------------|--------------|----------------|----------------|
|  |             | <b>DOT 3</b>                | <b>DOT 4</b> | <b>DOT 5.1</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)                         | mm²/s       | <1500                       | <1800        | <900           | 1750           |
| Viscosity at 100°C (212 °F)                        | mm²/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/cm2      |                             | 0.2 max      |                | 0.01           |
| Steel  | mg/cm2      |                             | 0.2 max      |                | 0.02           |
| Aluminium  | mg/cm2      |                             | 0.1 max      |                | 0.03           |
| Cast   | mg/cm2      |                             | 0.2 max      |                | 0.05           |
| Tin  | mg/cm2      |                             | 0.4 max      |                | 0.09           |
| Copper   | mg/cm2      |                             | 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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