



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 ² /s |
| Viscosity at 100 °C (212 °F) | 2.59 mm ² /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

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| TEST | Unit | Specification limits | | | RFB 660 |
|--|--------------------|-----------------------------|--------------|----------------|----------------|
| | | DOT 3 | DOT 4 | DOT 5.1 | |
| Dry boiling point | °C | >205 | >230 | >260 | 328 (622°F) |
| Wet boiling point | °C | >140 | >155 | >180 | 204 (399°F) |
| Viscosity at - 40°C (- 40°F) | mm ² /s | <1500 | <1800 | <900 | 1698 |
| Viscosity at 100°C (212 °F) | mm ² /s | | >1.5 | | 2.59 |
| pH | | | 7-11.5 | | 7.15 |
| 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 |
| 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 | | | No freezing | | OK |
| Bubble time | s | | 10 max | | OK |
| Appearance at -50°C | | | No freezing | | OK |
| Bubble 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 | | 0.03 |
| Steel | mg/cm ² | | 0.2 max | | 0.01 |
| Aluminium | mg/cm ² | | 0.1 max | | 0.02 |
| Cast iron | mg/cm ² | | 0.2 max | | 0.1 |
| Brass | mg/cm ² | | 0.4 max | | -0.04 |
| Copper | mg/cm ² | | 0.4 max | | -0.05 |

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