






Federal-Mogul Italy s.r.l.
 Racing & Motorcycle Div.
 Corso Inghilterra, 2
 12084 Mondovì (CN)
 Italy
 DRiV.com

FRF340 (Glycol Ether Brake Fluid) Technical Data Sheet

Key features relative to other fluids

| | | DOT4 | DOT5.1 | Ferodo Formula | Ferodo Super Formula | FRF340 |
|--|---------------------------|--------|--------|----------------|----------------------|---------------|
| Technical Details: Typical measured values | Dry boiling point (°C) | 248 | 270 | 310 | 328 | 339 |
| | Wet boiling point (°C) | 159 | 185 | 205 | 200 | 199 |
| | Kinematic Viscosity (cSt) | 1250 | 800 | 1650 | 1500 | 2125 |
| Availability | 0,25 litre | FBX025 | FBZ025 | n/a | n/a | n/a |
| | 0,50 litre | FBX050 | FBZ050 | DSF050 | FSF050 | FRF340 |
| | 1 litre | FBX100 | FBZ100 | n/a | n/a | n/a |
| | 5 litres | n/a | FBZ500 | n/a | n/a | n/a |

Bottles are sold in complete boxes only

| | |
|---|------------------|
|  | Box = 24 bottles |
|  | Box = 12 bottles |
|  | Box = 4 bottles |



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Detailed Specification

Formulated to withstand the very high temperatures generated during motor sport events. Although compatible with conventional brake systems using Glycol Ether based Brake Fluids, it is only recommended for track use. The product meets the following requirements:

| Test | Units | Method | Specification |
|----------------------------------|--------------|---------------|----------------------|
| Equilibrium Reflux Boiling Point | °C. | FMVSS 116 | 335 Min. |
| Wet Equilibrium Boiling Point | °C. | FMVSS 116 | 195 Min. |

| Test Required | Typical Results | Specification |
|--|--------------------------|----------------------------------|
| Dry Equilibrium Reflux Boiling Point, °C | 339 | 335 °C. Min. |
| Wet Equilibrium Reflux Boiling Point, °C | 199 | 195 °C. Min. |
| Kinematic Viscosity @ -40 °C, cSt | 2125 | - |
| @ 100 °C, cSt | 2.31 | 1.5 cSt Min. |
| pH | 6.71 | - |
| High Temperature Stability, °C | -1 | +/- 3.0 °C. Max |
| Chemical Stability, °C | +1 | +/- 3.0 °C. Max |
| Fluidity & Appearance @ -40 °C | Pass | No freezing |
| @ -50 °C | Pass | No freezing |
| Water Tolerance @ -40 °C | Clear, 8 seconds | 10 seconds Max |
| @ +60 °C | Clear, No sediment | Sediment not to exceed 0.05% v/v |
| Compatibility @ -40 °C | Clear, No stratification | No stratification |
| @ +60 °C | Clear, No sediment | Sediment not to exceed 0.05% v/v |
| Colour, visual | Straw | Water white to amber |
| Water Content, % | < 0.20 | Not required |
| Density @ 20 °C, g/ml | 1.08 | Not required |

Oxidation Resistance

| | | | |
|-----------|-----------------------------|-------|--------------------------|
| Cast Iron | Δ mg/cm ² | +0.04 | 0.3 Max |
| | Appearance | Pass | No pitting or roughening |
| Aluminium | Δ mg/cm ² | +0.01 | 0.05 Max |
| | Appearance | Pass | No pitting or roughening |



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Corrosion Resistance

| | | | |
|---------------------------|-----------------------------|--------|--|
| Tinned Iron | Δ mg/cm ² | -0.03 | 0.2 Max |
| | Appearance | Good | No pitting or etching |
| Steel | Δ mg/cm ² | -0.01 | 0.2 Max |
| | Appearance | Good | No pitting or etching |
| Aluminium | Δ mg/cm ² | Nil | 0.1 Max |
| | Appearance | Good | No pitting or etching |
| Cast Iron | Δ mg/cm ² | -0.03 | 0.2 Max |
| | Appearance | Good | No pitting or etching |
| Brass | Δ mg/cm ² | -0.08 | 0.4 Max |
| | Appearance | Good | No pitting or etching |
| Copper | Δ mg/cm ² | -0.05 | 0.4 Max |
| | Appearance | Good | No pitting or etching |
| Fluid Appearance | | Pass | No crystallisation or gelling |
| Sediment % | | < 0.05 | < 0.1% |
| pH | | 6.95 | 7 – 11.5 |
| Rubber Diameter Change mm | | +0.16 | +1.40 Max |
| Hardness Change °IRHD | | -4 | -15 °IRHD Max |
| Appearance | | Pass | No sloughing, blistering or disintegration |

Effect on Rubber

| | | | |
|--|--------------------------|-------|--|
| SBR @ 70 °C | \varnothing change, mm | 0.71 | 0.15 to 1.40 |
| | Δ hardness, IRHD | 8 | 0 to -10 |
| | Δ volume, % | 7.45 | 1 to 16 |
| | Appearance | Good | No blistering, sloughing or disintegration |
| SBR @ 120 °C | \varnothing change, mm | 1.02 | 0.15 to 1.40 |
| | Δ hardness, IRHD | 11 | 0 to -15 |
| | Δ volume, % | 10.55 | 1 to 16 |
| | Appearance | Good | No blistering, sloughing or disintegration |
| EPDM @ 70 °C (as required by SAE J1703) | Δ hardness, IRHD | 2 | 0 to -10 |
| | Δ volume, % | 0.51 | 0 to 10 |
| | Appearance | Good | No blistering, sloughing or disintegration |
| EPDM @ 120 °C | Δ hardness, IRHD | 3 | 0 to -15 |
| | Δ volume, % | 1.79 | 0 to 10 |
| | Appearance | Good | No blistering, sloughing or disintegration |