



Martini® Racing Formula Brake Fluid RF-700

Technical data and specifications

Martini® RF-700 Racing Formula Brake Fluid has been especially manufactured to provide the highest performance and service life during racing, motorsport or extreme braking conditions.



Martini® RF-700 Racing Formula Brake Fluid is designed to provide the highest possible resistance to fluid boiling and degradation in racing applications.

Martini® RF-700 Racing Formula Brake Fluid incorporates low moisture absorption and high density characteristics. Martini® RF-700 Racing Formula Brake Fluid is designed with a very high specific gravity which assists in greatly reducing compressibility and in turn helps to eliminate soft pedal fading and vapor lock.

Martini® RF-700 Racing Formula Brake Fluid has a typical temperature operating range of:

Maximum Dry Boiling Point: 328°C/623°F
Maximum Wet Boiling Point: 204°C/400°F

Martini® RF-700 Racing Formula Brake

Fluid is an ultra-premium racing formulation brake fluid which conforms to and exceeds current domestic and international specifications:

* DOT 3 * DOT 4 * U.S. FMVSS No.116 * SAE J1703 * SAE J1704 & ISO 4925 (Classes 3 & 4)

For best results, bleed the system with Martini® RF-700 Racing Formula Brake Fluid before each meeting.

Martini® RF-700 Racing Formula Brake Fluid should not be mixed with other brake fluids or its outstanding performance may be compromised.

Martini® RF-700 Racing Formula Brake Fluid is one of the very few *RACE GRADE* brake fluids that is completely safe and road legal in Australia as well as other International destinations.

Martini® RF-700 Racing Formula Brake Fluid if spilt will damage paintwork, wash off immediately with cold water.

Martini® RF-700 Racing Formula Brake Fluid is not recommended for use with components made from magnesium or alloys with high magnesium content.

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Martini Racing Products P/L

38 Henderson Road Rowville Victoria Australia 3178 Ph.+61 3 97630977 www.martiniracing.com.au

Typical Results: Martini® Racing Formula Brake Fluid RF-700
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Test Required	Results	DOT 4 Specification
ERBP DRY °C.	328	230 °C. Minimum
ERBP WET °C.	204	155 °C. Minimum
VISCOSITY @ -40 °C. cSt	1495	1800 cSt Maximum
VISCOSITY @ 100 °C. cSt	2.59	1.5 cSt Minimum
pH	7.15	7 – 11.5
HIGH TEMPERATURE STABILITY °C.	-1	+/- 3.0 °C. Maximum
CHEMICAL STABILITY °C.	+1	+/- 3.0 °C. Maximum
EVAPORATION % w/w	50	80% Maximum
FLUIDITY AND APPEARANCE		
@ -40 °C.	Pass 4 seconds	No freezing Bubble time 10 sec. Maximum
@ -50 °C.	Pass 7 seconds	No freezing Bubble time 35 sec. Maximum
WATER TOLERANCE		
@ -40 °C.	Clear 5 seconds	10 seconds Maximum
@ +60 °C.	Clear No sediment	Sediment not to exceed 0.05% by volume
COMPATIBILITY		
@ -40 °C.	Clear No stratification	No stratification
@ +60 °C.	Clear No sediment	Sediment not to exceed 0.05% by volume
COLOUR	Straw	Water white to amber
WATER CONTENT %	< 0.20	Not required
DENSITY @ 20° C. g/ml	1.078	Not required

CORROSION	WEIGHT CHANGE Mg./cm ² and APPEARANCE	WEIGHT CHANGE Mg./cm ² and APPEARANCE
Tinned Iron	+0.03 Good	0.2 max. No pitting or etching
Steel	+0.01 Good	0.2 max. No pitting or etching
Aluminium	+0.02 Good	0.1 max. No pitting or etching
Cast Iron	+0.10 Good	0.2 max. No pitting or etching
Brass	-0.04 Good	0.4 max. No pitting or etching
Copper	-0.05 Good	0.4 max. No pitting or etching
Zinc (2)	N/A	N/A
Fluid Appearance	Pass	No crystallisation or gelling
Sediment %	< 0.05	< 0.1%
pH	7.51	7 – 11.5
Rubber Diameter Change mm	+0.030	+1.40 max
Hardness Change IRHD	-4	-15 Deg. Max
Appearance	Pass	No sloughing, blistering or disintegration

RESISTANCE TO OXIDATION	WEIGHT CHANGE Mg./cm ² and APPEARANCE	WEIGHT CHANGE Mg./cm ² and APPEARANCE
Cast Iron	+0.03 Pass	0.3 max No pitting or roughening
Aluminium	-0.01 Pass	0.05 max No pitting or roughening

Test Required	Results				DOT 4 Spec.			
EFFECT ON RUBBER	DIAM. CHANGE MM	HARDNESS DECREASE IRHD	VOLUME SWELL %	VISUAL	DIAM. CHANGE MM	HARDNESS DECREASE IRHD	VOLUME SWELL %	VISUAL
SBR 70 °C.	+0.76	-4	+8.34	Good	0.15 to 1.40	0 - 10	1 – 16 (2)	No blistering, sloughing or disintegration
SBR 120 °C.	+1.05	-7	+10.81	Good	0.15 to 1.40	0 - 15	1 – 16 (2)	No blistering, sloughing or disintegration
EPDM 70 °C. (1)	N/A	-1	0.93		N/A	0 - 10	0 - 10	No blistering, sloughing or disintegration
EPDM 120 °C. (1)	N/A	-2.5	1.80		N/A	0 - 15	0 - 10	No blistering, sloughing or disintegration
Natural 70 °C. (2)	N/A	N/A	N/A		0.15 to 1.40	0 - 10	1 - 16	No blistering, sloughing or disintegration

(1) As required by SAE J1703

(2) As required by ISO 4925

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