



# DOT 4 Brake Fluid

**Champion® DOT 4 Brake Fluid** DOT 4 brake fluids meet or exceed Federal Motor Vehicle Safety Standard (FMVSS) No. 116 (DOT 4), SAE J1704 and ISO 4925 specifications.

<b>Specifications</b>	<b>Champion</b>	<b>FMVSS 116 DOT 4</b>	<b>J1704</b>
Equilibrium reflux boiling point, °C (°F) min.	266 (510)	>230 (446)	>205 (401)
Wet Equilibrium reflux boiling point, °C (°F) min.	167 (332)	>155 (311)	>155 (311)
Kinematic viscosity, at -40°C, cSt max.	1400	<1800	<1800
at 100°C, cSt min.	2.3	>1.5	>1.5
Flash Point (PMCC)			
pH	7.1	7 - 11.5	7 - 11.5
Corrosion - Weight change, mg/cm <sup>2</sup> , max.			
Tinned iron	0.0	<0.2	<0.2
Steel	0.0	<0.2	<0.2
Aluminum	0.0	<0.1	<0.1
Cast iron	0.0	<0.2	<0.2
Brass	0.0	<0.4	<0.4
Copper	0.1	<0.4	<0.4
Zinc	0.0	<0.4	<0.4
Fluidity at low temperatures, sec., max.			
Bubble travel time at -58°F	PASS	<35	<35
Evaporation – < 7 Days, Wt%	34	<80	<80
Compatibility - Sedimentation at 60°C, vol. %, max.	0.01	0.10	0.10
Effects of rubber (SBR)			
158°F rubber swell, inches	PASS	0.006 - 0.055	0.006 - 0.055
158°F Hardness decrease, IRHD, max.	3	10	10
248°F rubber swell, inches	PASS	0.006 - 0.055	0.006 - 0.055
248°F Hardness decrease, IRHD, max.	3	15	15
Effects on rubber cups			
Base diameter increase, mm	PASS	0.055	0.055
248°F Hardness decrease, IRHD, max.	2	15	15
Gelling of Fluid/Water	None	None	None
Crystalline deposit	None	None	None

Call Our Friendly Sales Representatives for Available Package Sizes

4054

EFFECTIVE 11/09

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