

Halo GT Technical Data Sheet

SPECIFICATION NO: OSS 198

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ISSUED BY: D STAFFORD, CHIEF DEVELOPMENT CHEMIST

Halo GT is an advanced DOT 4 racing brake fluid derived from Halo P1 developed for for drivers and riders competing across a wide range of categories from national club level right up to international series.

Halo GT meets and exceeds FMVSS DOT4, as well as all equivalent international standards, including JIS K2233 and GB12981 and more stringent standards such as ISO 4925 Class 4 and SAE J1704, making it equally suitable for fast road and track use.

TEST	UNITS	TYPICAL RESULTS	SPECIFICATION
Dry Equilibrium Reflux Boiling Point	°C.	336°C, 637°F	330°C, 626°F Min.
Wet Equilibrium Reflux Boiling Point	°C.	206°C, 403°F	200°C, 392°F Min.
Kinematic Viscosity @ -40°C	cSt	1350	1500 cSt Max.
Kinematic Viscosity @ 100°C	cSt	2.5	1.5 cSt Min.
	pH	7.15	-

Notes:

- Halo GT is DOT 4 road legal
- Borate Glycol ether ester formulation
- Compatible with conventional and ABS brake systems

Additional technical data available on request:

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TEST REQUIRED	TYPICAL RESULTS	SPECIFICATION
Dry Equilibrium Reflux Boiling Point, °C	336	330 °C. Min.
Wet Equilibrium Reflux Boiling Point, °C	206	195 °C. Min.
Kinematic Viscosity		
@ -40 °C, cSt	1350	1800 cSt Max.
@ -100 °C, cSt	2.5	1.5 cSt Min.
pH	7.15	7 – 11.5
High Temperature Stability, °C	3	+/- 3.0 °C. Max
Chemical Stability, °C	1	+/- 3.0 °C. Max
Evaporation, %w/w	78.9	80% Max
Fluidity & Appearance		
@ -40 °C	Pass, 4 seconds	No freezing, Bubble time 10 sec. Max
@ -50 °C	Pass, 13 seconds	No freezing, Bubble time 35 sec. Max
Water Tolerance		
@ -40 °C	Clear, 3 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, %	0.1	Not required
Density @ 20 °C, g/ml	1.0688	Not required

CORROSION RESISTANCE	TYPICAL RESULTS	SPECIFICATION
Tinned Iron Δ mg/cm ² Appearance	0.03 Good	0.2 Max No pitting or etching
Steel Δ mg/cm ² Appearance	0.004 Good	0.2 Max No pitting or etching
Aluminium Δ mg/cm ² Appearance	0.025 Good	0.1 Max No pitting or etching
Cast Iron Δ mg/cm ² Appearance	0.081 Good	0.2 Max No pitting or etching
Brass Δ mg/cm ² Appearance	0.009 Good	0.4 Max No pitting or etching
Copper Δ mg/cm ² Appearance	0.027 Good	0.4 Max No pitting or etching
Fluid Appearance	Clear dark orange fluid	No crystallisation or gelling
Sediment %	0.0	<0.1%
pH	7.23	7 – 11.5
Rubber Diameter Change mm	0.64	+1.40 Max
Hardness Change °IRHD	-6	-15 °IRHD Max
Appearance	Good	No sloughing, blistering or disintegration

OXIDATION RESISTANCE**TYPICAL RESULTS****SPECIFICATION****Cast Iron** Δ mg/cm²

0.04

0.3 Max

Appearance

Good

No pitting or roughening

Aluminium Δ mg/cm²

0.00

0.05 Max

Appearance

Good

No pitting or roughening

EFFECT ON RUBBER**TYPICAL RESULTS****SPECIFICATION****SBR @ 70 °C** $\varnothing$ change, mm

0.56

0.15 to 1.40

 Δ hardness, IRHD

-4

0 to -10

 Δ volume, %

8.77

1 to 16

Appearance

Good

No blistering, sloughing
or disintegration**SBR @ 120 °C** $\varnothing$ change, mm

0.82

0.15 to 1.40

 Δ hardness, IRHD

-8

0 to -15

 Δ volume, %

13.86

1 to 16

Appearance

Good

No blistering, sloughing
or disintegration**EPDM @ 70 °C** Δ hardness, IRHD

-2

0 to -10

 Δ volume, %

2.27

0 to 10

Appearance

Good

No blistering, sloughing
or disintegration**EPDM @ 120 °C** Δ hardness, IRHD

-4

0 to -15

 Δ volume, %

3.21

0 to 10

Appearance

Good

No blistering, sloughing
or disintegration

