

GT

halo.
By Orthene.

Halo GT Technical Data Sheet

SPECIFICATION NO: OSS 198

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ISSUED BY: D STAFFORD, CHIEF DEVELOPMENT CHEMIST

Halo By Orthene
Brember Road, South Harrow Industrial Estate,
Harrow, Middlesex, HA2 8UJ, UK.

Tel: +44 (0)20 8864 4414

Orthene Chemicals Ltd is approved to IATF 16949 Certificate No: 0490795

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	UNIT	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	195°C, 383°F Min.
Kinematic Viscosity @ -40°C	cSt	1350	-
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:

info@halobyorthene.com

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

Tinned Iron	Δ mg/cm ²	0.03	0.2 Max
	Appearance	Good	No pitting or etching
Steel	Δ mg/cm ²	0.004	0.2 Max
	Appearance	Good	No pitting or etching
Aluminium	Δ mg/cm ²	0.025	0.1 Max
	Appearance	Good	No pitting or etching
Cast Iron	Δ mg/cm ²	0.081	0.2 Max
	Appearance	Good	No pitting or etching
Brass	Δ mg/cm ²	0.009	0.4 Max
	Appearance	Good	No pitting or etching
Copper	Δ mg/cm ²	0.027	0.4 Max
	Appearance	Good	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

Cast Iron	Δ mg/cm ²	0.04	0.3 Max
	Appearance	Good	No pitting or roughening
Aluminium	Δ mg/cm ²	0.00	0.05 Max
	Appearance	Good	No pitting or roughening

EFFECT ON RUBBER

SBR @ 70 °C	Ø 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	Ø 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
