



Product Data

Castrol Brayco 717 Transmission Power Fluid

Description

Castrol Brayco™ 717 is a straw-colored, medium viscosity hydraulic fluid. It is a blend of highly refined petroleum base stocks and additives, which provide resistance to oxidation and corrosion, anti-wear properties, and a high viscosity index.

Temperature Range

-40°C to 122°C (-40°F to 250°F).

Applications

Brayco 717 is designed for the hydraulic transmission of power in Naval ordinance hydraulic equipment. It provides corrosion protection in the presence of salt water and spray.

Shelf Life

Brayco 717 has a maximum recommended shelf life of 6 years from date of manufacture. This shelf life assumes that the product is stored in its original unopened packaging in ambient temperature conditions.

Specification

Brayco 717 meets the requirements of military specification MIL-DTL-17111C. MIL-DTL-17111C requires first article testing rather than qualification and approval. This fluid is identified by NATO Code Number H-575.

Typical Characteristics

Test	Method	Units	SPECIFICATION REQUIREMENTS	Result
Petroleum Base Stock				
Neutralization Number	ASTM D974	mg KOH/gm	0.05 Maximum	0.01
Aniline Point Change	ASTM D611	°C	-16 Maximum	0.6
Precipitation Number	ASTM D91	ml	0.05 Maximum	0.02
Aniline Point, °C		°C	77 Minimum	83.4
Finished Fluids				
API Gravity	ASTM D287	degrees	30 – 33 Typical	30.9
Specific Gravity @16°C/60°F	Table 3		0.859 – 0.875 Typical	0.871
Density @16°C/60°F	Table 8	Lbs/gal		7.255
Kinematic Viscosity @-35°C/-31°F @-20°C/-4°F @40°C/104°F @100°C/212°F	ASTM D445	cSt	1000 Maximum 500 Minimum 25 Minimum 8 Minimum	828 278 26.4 8.8
Pour Point	ASTM D97	°C/°F	-40/-40 Maximum	-51/-60
Flash Point, COC	ASTM D92	°C/°F	104/220 Minimum	110/230
Fire Point, COC	ASTM D92	°C/°F	113/235 Minimum	118/245
Neutralization Number	ASTM D974	mg KOH/gm	0.3 Maximum	0.1
Precipitation Number	ASTM D91	ml	0.05 Maximum	0
Water Content	ASTM D95	%	0.0 Maximum	0
Color	ASTM D1500		2 Maximum	<1
Low Temperature Turbidity 72 hrs @-37°C/-35°F	Spec 4.2.3.4.2	Pass/Fail	Pass	Pass
Rust Prevention, Procedure A, 24 hrs	ASTM D665	Pass/Fail	Pass	Pass
Corrosion-Oxidation Stability, 72 hrs @ 93.3°C (201°F) Change in Viscosity @100°C/212°F Change in Viscosity @ -20°C/-4°F Neutralization Number, Oil Layer Neutralization Number, Water Layer Loss of Liquid	Spec 4.2.3.4.2	% % mg KOH/gm mg KOH/gm gm	0 to +15 0 to +15 0.5 Maximum 0.5 Maximum 10 Maximum	+4.4 +24.5 0.08 0 2.6
Evaporation, 6 hrs @66°C/151°F	ASTM D972	% wt	20 Maximum	7.1
Water Sludging Viscosity @40°C/104°F	Spec 4.2.3.5	% Change	-2 to +10	8.1
Workmanship	Spec 3.2.5	Pass/Fail	Pass	Pass

Subject to usual manufacturing tolerances.

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. User accepts all risks and liabilities if the product is used other than in the manner, with the precautions, or for the purpose(s) specified. Before using the product other than directed, please contact Castrol ILS for consultation.

Brayco 717
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All reasonable care has been taken to ensure that the information contained in this publication is accurate as of the date of printing. However, such information may, nevertheless, be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol Ltd products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.

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