



## Product Data

# Castrol Brayco Micronic 776RP

High Response Hydraulic System Fluid

## Description

Brayco™ Micronic 776RP is a petroleum base, medium viscosity, light colored ISO Grade 22 hydraulic oil used in high performance hydraulic systems. It is a blend of selected, highly refined, high flash point base stocks with suitable additives to yield a product with unusually good anti-wear properties, low rubber swell, and excellent oxidation stability. It provides corrosion protection, dispersancy and is completely shear stable. Brayco Micronic 776RP is specially processed to meet a guaranteed, low particulate contaminant level.

## Application

Brayco Micronic 776RP was developed for use in hydraulic systems that must respond with extreme accuracy. It was developed to replace aircraft hydraulic fluid in micro-hydraulic systems, computer programmed animation for robots, and other systems in which fire resistance, trouble-free operation, leak resistance, and fast precise responses are major requirements. In addition to its intended use, it is currently being used in computer and tape controlled hydraulic systems such as high precision automatic machine tools, data recovery systems, and in rail car control systems and brakes.

## Specification

Brayco Micronic 776RP meets stringent specifications that have been accepted as contractual requirements with various OEM users.

## Shelf Life

Brayco Micronic 776RP 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.

## Typical Characteristics

Test	Method	Units	SPECIFICATION REQUIREMENTS	Result
API Gravity, degrees	ASTM D287	degrees	Report	32.6
Specific Gravity 16°C/60°F	Table 3		Report	0.862
Density @16°C/60°F	Table 8	Lbs/gal	Report	7.18
Viscosity @-40°C/-40°F @-7°C/ 20°F @38°C/100°F @65°C/150°F @99°C/210°F	ASTM D445	cSt	Report Report 25-27 Report Report	12,000 290 25.8 10.2 4.84
Viscosity Index	ASTM D2270		Report	114
Pour Point	ASTM D97	°C/°F	-21/-5 Maximum	-26/-15
Flash Point, COC	ASTM D92	°C/°F	198/390 Minimum	212/414
Water, KFR	ASTM D1744	ppm	150 Maximum	50
Rubber Swell 160 hours @76°C/168°F	ASTM 3603	%	Report	14
Copper Strip Corrosion 72 hours @100°C/ 212°F	ASTM D130	Hrs	Report	1b
Corrosion Protection HC, Sandblasted Panels, 20 hours	FTM 5329	Pass/Fail	Pass	Pass
Corrosivity, 10 Days	FTM 5322	Pass/Fail	Pass	Pass
Particulate Contamination per 100 ml 5 - 15 Microns 16 - 25 Microns 26 - 50 Microns 51 -100 Microns >100 Microns	FTM 3009		10,000 Maximum 1,000 Maximum 150 Maximum 20 Maximum 5 Maximum	6,000 100 30 4 0

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 Micronic 776RP  
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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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