

ChevronTexaco Bright-Cut® AD Metal Working Fluid

Category : Fluid , Lubricant

Material Notes:

Features Chevron Bright-Cut Metalworking Fluids are a complete line of chlorine-free cutting oils that offer benefits not found in conventional cutting oils. The unique synthetic antiweld components replace the chlorine and reduce the amount of sulfur and fat typically needed for difficult cutting operations. They are light in color, for improved visibility during machining, and low in odor. Chevron Bright-Cut Metalworking Fluids formulated with ISOSYN® base stocks provide increased oil life and a safer work environment by increasing the fluid's flash point, and lowering exposure to aromatics and product vapor, smoking, and misting. Chevron Bright-Cut Metalworking Fluids: provide excellent cooling and lubrication in a wide range of machining operations prevent welding of chip and tool flush chips away from the work area protect the finished work surfaces, tools and machines against rusting and staining reduce oil mist in high speed machine tools The nonstaining oils, Chevron Bright-Cut NL and NM Metalworking Fluids, can be used as dual or tri-purpose oils in associated splash, hydraulic or spindle lubrication systems of metalworking machines. Chevron Bright-Cut AM, AH, AXH and AD Metalworking Fluids contain active sulfur and will stain copper and brass. **Applications** Do not use Chevron Bright-Cut Metalworking Fluids in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed. The severity of the machining operation and the machinability of the metal are the criteria for selecting the proper cutting oil. Chevron Bright-Cut NHG Metalworking Fluid **Service Classification: Honing/Grinding, Nonstaining** A low viscosity cutting oil that is designed for use in light duty machining or honing and grinding operations on ferrous and nonferrous metals, particularly aluminum, magnesium and their alloys. It can also be mixed with other Chevron Bright-Cut and Chevron Elite-Cut® Metalworking Fluids to adjust their compounding to meet the demands of a specific machining operation. Chevron Bright-Cut NL Metalworking Fluid **Service Classification: Light Duty, Nonstaining** A light duty product, suitable for general purpose machining of free-machining steels and nonferrous metals. This product is also designed for use in flute grinding operations on difficult tool steels, where it extends wheel life and reduces burning of finished parts found with conventional fluids. Chevron Bright-Cut NM Metalworking Fluid **Service Classification: Medium Duty, Nonstaining** The workhorse tri-purpose cutting oil, suitable for automatic screw machine operations on free machining to intermediate steels, and intermediate to difficult nonferrous metals. Chevron Bright-Cut AM Metalworking Fluid **Service Classification: Medium Duty, Active** A versatile, general purpose cutting oil for use with carbon steels and alloy steels. It provides the cooling needed for light-to-moderately severe machining operations and gives excellent tool life and finishes in operations such as tapping, threading, drilling, gear shaving and turning. Chevron Bright-Cut AH Metalworking Fluid **Service Classification: Heavy Duty, Active** Provides excellent performance for a wide range of applications. It is suitable for machining tough alloy steels and stainless steels. It is well adapted for broaching, threading, tapping and other difficult operations requiring a heavy duty oil for tool life and finish. This oil may be blended with Chevron Bright-Cut NHG Metalworking Fluid for less severe applications. Chevron Bright-Cut AXH Metalworking Fluid **Service Classification: Extra-Heavy Duty, Active** Designed for the most difficult machining operations, such as broaching, tapping and threading on soft str

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Physical Properties	Metric	English	Comments
API Gravity	33.3 °	33.3 °	
Saybolt Viscosity at 100°F	69 SUS	69 SUS	
Saybolt Viscosity at 210°F	37 SUS	37 SUS	

Physical Properties	Metric	English	Comments
Kinematic Viscosity at 40°C (104°F)	12 cSt	12 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	3.2 cSt	3.2 cSt	ASTM D445

Thermal Properties	Metric	English	Comments
Pour Point	-16.0 °C	3.20 °F	ASTM D97
Flash Point	160 °C	320 °F	ASTM D92

Component Elements Properties	Metric	English	Comments
Sulfur, S	1.7 %	1.7 %	

Descriptive Properties	Value	Comments
Antimist	No (Antimist is ineffective in low viscosity oils)	
Synthetic EP, wt%	4.5	

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