

PRODUCT INFORMATION



Powers-All Powercut 500

DESCRIPTION: Powercut 500 is a light colored, active cutting oil designed for use in moderate to severe machining operations. This new *clear view* cutting oil is formulated with optimum levels of extreme pressure (EP) additives in the form of sulfur and chlorine. These EP additives react with the metal surface under high temperature and pressure to form a protective surface film at the chip-tool interface to form an effective boundary lubricating film.

- BENEFITS:**
- Promotes increased tool life
 - Light color allows good visual inspection of machined parts
 - Elevated synthetic lubricity agent provides excellent surface finish
 - High quality active sulfur cutting oil provides excellent anti-weld performance

APPLICATION: Powercut 500 can be used to machine even the most difficult metals. It is formulated to provide strong performance where moderate to severe machining is required. The high level of extreme pressure (EP) additive coupled with synthetic fatty oil makes this product ideal for a broad range of machine operations, including: threading, tapping, broaching, milling and where a high level of surface finish is a must.

Typical Properties

Powercut 500

Grade		Powercut 500
Material Code	Test Method	PA335325
Viscosity cSt @ 40°C	ASTM D 445	39.0
Viscosity SUS @ 100°F	ASTM D 2161	190
Flash Point, COC, °F	ASTM D 92	325
Specific Gravity, 60°F		0.863
Four Ball EP Weld Point, kgf		620
Load Wear Index	ASTM D 2783	95
Sulfur, %		Present
Chlorine, wt%		Present
Fat Oil, %		Present
Phosphorus, wt%		None

Note: Powercut 500 contains elevated amounts of active sulfur that will stain soft metals such as brass, bronze, copper and aluminum. Its use in machining applications where these metals are present and staining is an issue should be avoided.



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