Technical Data Sheet

Solutions Through Innovative Technology

Name: Val-Cut Gun Drill
Revision Date: 1/14/2023 – R1

ValCool, LLC
1441 Park Ten Blvd.
Houston, TX 77084

VAL-CUT GUN DRILL

BEST IN CLASS DRILLING OIL

DESCRIPTION

Val-Cut Gun Drill is an industry leader when it comes to deep hole drilling oils. The product contains sulfurized extreme pressure additives to assure metal to metal anti-weld properties exist at all temperatures.

A proprietary lubricity additive is found in Val-Cut Gun Drill to assure excellent lubricity exists during the initial turns in machining. This product outperforms other cutting oils and is designed for deep-hole drilling, gun drilling, ejector drilling, trepanning and other difficult machining operations.

The product is suitable for all alloys including non-ferrous metals.

FEATURES & BENEFITS

- Chlorine, phenol and boron free
- Low misting properties
- Extended tool life with increased production rates
- Excellent chip removal rates
- Exceptional lubrication properties
- Outstanding surface finish
- Non-irritating to operators' skin

METAL COMPATIBILITY

- Alloys made of steel
- Aluminum alloys
- Stainless Steel
- Titanium
- Titanium alloys
- Aluminum
- Copper alloys
- Tool Steel
- Hi Temp Alloys
- Tungsten Carbon
- Cast Iron
- Nickel alloys

HEALTH & SAFETY

See the most recent SDS which is available directly from ValCOOL, your local representative or authorized distributor. ValCOOL uses only raw materials not listed as carcinogenic by IRAC.

PROPERTIES

Appearance:	Clear Dark Liquid
Diluted Appearance:	N/A
Solubility in Water:	Does not mix
Odor:	Mild Industrial
Specific Gravity:	0.87
Total Sulfur (%):	2.5
Active Sulfur (%):	1.0
Total Ester (%):	5.0
Total Chlorine (%):	0.0
Flash Point (°F):	>390°F
ISO Viscosity @ 40°C:	22

APPLICATION & USAGE

ValCOOL recommends using Val-U-Clean or K-5-P to thoroughly clean machine prior to adding Val-Cut Gun Drill. Be sure to completely remove all cleaner solution to avoid contamination.

Val-Cut Gun Drill is a straight cutting oil so mixing with water is not required.

Maintaining the Val-Cut Gun Drill at its optimum performance is achieved through good fluid filtration practices.

No special precautions are necessary with respect to seals or valves.

Fluid compatibility and machinability should always be tested first; as fluid concentration, metal alloy, and machining operation are variable.