SHEARGLIDE® NPC Series

Metal Working Fluids

Rev. 1/2024

Description

Shearglide® NPC Series Metal Working Fluids are designed to provide excellent performance without the use of Chlorine and Phosphorus. They employ a special EP additive combined with active and inactive sulfurized lubricity agents to produce a full line of cutting oil products.

The unique EP agent in **Shearglide® NPC Series** Metal Working Fluids functions by physically plating on the work surface during metal forming. It creates a film of low shear strength and high melting point. This chemical inert reaction with metal surfaces permits higher turning speeds and feeds.

By contrast, chlorinated waxes function by reacting with metal surfaces to produce films of chlorides. These chlorides contribute to fluid degradation and interfere with rust inhibitors. In addition, chlorine adds to ecological problems and disposal costs.

Features/Benefits

- **Improves Part Quality**
  Excellent rust protection
  Improved surface finish
- **Improves Operational Efficiency**
  Extended tool life
  Minimizes Built-Up Edge (BUE)
  Higher Turning Speeds & Feeds
  Readily filterable
- **Environmentally Responsible**
  Chlorine free
  Phosphorus free
  Reduces disposal costs
  Lends well to recycling

Physical and Chemical Properties					
Shearglide® NPC Series	Inactive Sulfur			Active Sulfur	
Product	**901**	**904**	**905**	**915**	**917**
Product Code	224	434	237	236	233
API Gravity @ 60°F	29.5	32.1	28.3	26.4	25
Viscosity @ 40°C cSt	10	30	30	30	46
Sulfur, total % wt	0.4	0.4	0.6	2.2	2.3
Performance Properties					
Copper corrosion, ASTM D-130	1a	1a	1a	4a	4b
Falex jaw load, lbs	2,250	2,000	3,000	3,000	3,000
Rust test, ASTM d-665	Pass	Pass	Pass	Pass	Pass
Tapping efficiency %	110	120	130	135	140
Machinability	B	B	C	C	C
Dual Purpose	-	Yes	Yes	No	No

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