

NEW TECHNOLOGY METALWORKING FLUID FOR ALL METALS PAG BASED: FORMALDEHYDE FREE TECHNOLOGY

PRODUCT DESCRIPTION

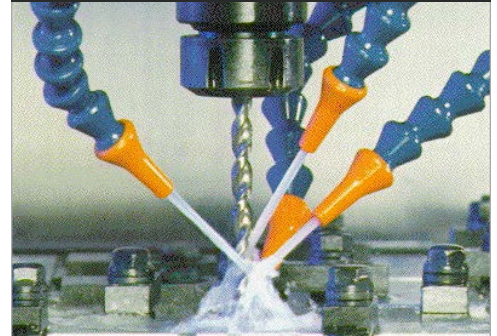
NuSol® 27 HP is a completely new technology that Chemtool Incorporated is introducing to the metalworking industry. NuSol® 27 HP is like no other metalworking fluid on the market today. NuSol® 27 HP is manufactured using a proprietary process that incorporates many unique characteristics into the product that promote very high productivity and minimal downtime for the end user. NuSol® 27 HP is formulated utilizing a blend of unique preformed emulsions of very small and stable particle size (average particle size of one micron). This small particle size provides a very durable and uniform lubricant film (based upon two synthetic boundary lubricants), enhanced cooling, a very clean running fluid, and exceptional hard water stability. The incorporation of this leading edge PAG technology enables NuSol® 27 HP to exhibit superior lubrication comparable to existing synthetic technologies with the advantages of superior surface cleanliness, improved deposit control, and outstanding hydrolytic stability.

NuSol® 27 HP exhibits desirable residues on machined parts and system surfaces. An enhanced biostability package incorporating the newest and safest technologies prevents bacterial and fungal growth resulting in longer sump life. NuSol® 27 HP is completely formaldehyde free. NuSol® 27 HP International totally rejects tramp oils, which can be easily removed with standard oil removal systems. NuSol® 27 HP is an extremely versatile product and offers outstanding performance in both stand-alone and central systems. NuSol® 27 HP is also completely compatible with other Chemtool NuSol® fluids and can be added over the top of existing fluids rather than removing and disposing of current fluids in use.

FEATURED BENEFITS

- Excellent corrosion protection for all tooling, equipment, and parts
- Exceptional lubricant film for good tool life based upon synthetic technologies
- Extremely small particle size for superior wetting
- Excellent hard water stability and outstanding product selection for fluid recycling systems
- Formaldehyde free: versatile fluid for all system sizes
- Outstanding surface cleanliness and deposit control
- Enhanced thermal stability for high temperature applications and reduced smoking

PRODUCT APPLICATION



COMPATIBLE METALS

Cast Iron
Carbon Steel
Tool Steel
Stainless Steel
Aluminum
Titanium
Inconel
Bronze
Copper
Brass

MACHINING CAPABILITIES

Milling
Turning
Sawing
Drilling
Reaming
Tapping
OD/ID/Centerless Grinding
Burnishing
Light Duty Hobbing & Broaching
Medium-Duty Stamping & Drawing

HIGH PRESSURE COOLANT CAPABILITY

Yes

ALL METAL SAFE

Yes

REFRACT INDEX

3.0

PRODUCT SPECIFICATIONS

Fluid Type	New technology metalworking fluid
Appearance	White, translucent emulsion
Odor	Mild
Specific Gravity, 60°F (15.6°C)	1.036
Weight, lb/gal., 60°F (15.6°C)	8.64
pH (concentrate)	10%
pH (10% dilution)	9.70
Biostability	Excellent
Freeze/Thaw	Stable
Heat Stability	Pass

PRODUCT APPLICATION / USAGE

NuSoL® 27 HP is recommended for general purpose machining and grinding of ferrous and nonferrous alloys.

Operation	Carbon Steels, Cast Iron	Alloy Steels	Aluminum Alloys
Milling, Drilling, Turning	6 – 9%	7 – 11%	7 – 12%
Reaming, Light Duty Broaching, Milling, Tapping, Sawing	7 – 9%	8 – 14%	9 – 14%
Grinding: I.D., O.D.	6 – 8%	6 – 10%	6 – 12%

MIXING DATA

NuSoL® 27 HP metalworking fluid is to be mixed with water for use. Always add product concentrate to the water, not water to product concentrate. Add with mild agitation. Product concentration can easily be monitored by refractometer or Chemtool Titration Kit.

Concentration	15%	10%	7%	5%	3%	2%
Refractometer Reading	6.0	4.0	2.8	2.0	1.2	0.9
Drops 0.5N HCL	32	22	15	11	7	5

AVAILABILITY

275 Gallon Tote
55 Gallon Drum
Bulk Quantity

27075Q00000-CT2115
27075Q00000-CT3115

HEALTH AND SAFETY

For health and safety guidance, please refer to the Chemtool SDS (Safety Data Sheets).



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