NUSOL® 21 HIGH PERFORMANCE

NEW TECHNOLOGY METALWORKING FLUID FOR ALL METALS: PAO BASED

PRODUCT DESCRIPTION

NuSol*21 High Performance is a completely new technology that Chemtool Incorporated is introducing to the metalworking industry. NuSol® 21 High Performance is like no other metalworking fluid on the market today. NuSol® 21 High Performance is manufactured using a proprietary process that incorporates into the product many unique characteristics which promote very high productivity and minimal downtime for the end user.

NuSol® 21 High Performance is formulated utilizing a preformed emulsion 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 synthetic boundary lubricants), enhanced cooling, a very clean running fluid, and exceptional hard water stability. The incorporation of this leading edge PAO technology enables NuSol® 21 High Performance to exhibit superior lubrication comparable to existing synthetic technologies with the advantages of superior surface cleanliness, improved deposit control and outstanding hydrolytic stability.

NuSol® 21 High Performance is the bedrock of the NuSol® family of products.

FEATURED BENEFITS

- · Will not produce "Monday Morning Odors." The biostable chemistry maintains the pH eliminating objectionable odors.
- · 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.
- · Very low reportable VOC's for operator acceptance.
- · High degree of cleanliness.
- · Higher viscosity oils offer improved boundary lubrication without heavy oil content limiting coolant carry-off and providing a cleaner machine interior.
- · High flash point oils eliminate mist and evaporation that reduces coolant cost and promotes a healthy work environment.
- · Proven history of being Operator safe.
- · Tramp oil rejection eliminates a source for bacteria and rancid odors that reduces sump change outs, disposal costs, and machine downtime.

PRODUCT APPLICATION

COMPATIBLE METALS

Carbon Steel Tool Steel Stainless Steel

Light-Duty Aluminum

Bronze Copper

Brass

MACHINING CAPABILITIES

Milling

Turning

Sawing

Drilling

Reaming

Tapping

OD/ID/Centerless Grinding

Burnishing

Light Duty Hobbing & Broaching

HIGH PRESSURE COOLANT CAPABILITY

Yes

ALL METAL SAFE

Yes

REFRACT INDEX

2.9

NUSOL® 21 HIGH PERFORMANCE

PRODUCT SPECIFICATIONS		
Fluid Type	New technology metalworking fluid	
Appearance	White, translucent emulsion	
Odor	Mild odor	
Specific Gravity, 60°F (15.6°C)	1.035	
Weight, lb/gal., 60°F (15.6°C)	8.63	
pH (10% dilution)	9.40	
Biostability	Excellent	

PRODUCT APPLICATION / USAGE

NuSol® 21 High Performance is recommended for general purpose machining of ferrous and non-ferrous alloys.

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

MIXING DATA

NuSol® 21 High Performance 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.

Concentration	9.0%	7.5%	6%	4.5%	3.0%
Refractometer Reading	3.0	2.5	2.0	1.5	1.0

AVAILABILITY	
275 Gallon Tote	2707500000-CT2021
55 Gallon Drum	2707500000-CT3526
5 Gallon Pail	2707500000-CT5521
Bulk Quantity	

HEALTH AND SAFETY

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



801 W Rockton Road, Rockton, IL 61072 Phone: 815-957-4140

Fax: 815-624-0381 www.chemtool.com