

## METALWORKING FLUIDS - SOLUBLE OILS

**Soluble cutting oils:** Fluids for a variety of metalworking applications like CNC machining, drilling, grinding, honing, milling, sawing and turning; Screw Machines and as rust preventives.

**Applications:** NuGeneration Technologies' NuKut lines of soluble oil metalworking fluids are designed to assist in many metal cutting and machining operations on ferrous, non-ferrous, and specialty alloys including aluminum. Non-chlorine, non-sulfur, non-phenol and non-nitrate based fluids with proprietary extreme pressure lubricants allow for easier disposal over chlorinated and sulfonated products. **NuKut SO 5** economical soluble oil for light machining of all metals, SO 5 can also be used as a light film rust preventative.

**NuKut SO 15 P Biostable** heavy duty soluble oil with no active chlorine, sulfur or phenol. Resists bacterial and fungal growth, rancidity and foul odors. Excellent for all metals including titanium. With proprietary E.P. additives and highly refined mineral oil, which leave a protective film on machine slides, ways and fixtures.

**NuKut SO 25 Cl** extreme heavy duty chlorinated soluble oil with no active sulfur or phenol. Excellent for all metals except titanium. Extend tool life with a proprietary E.P. additives and highly refined mineral oil, which leave a protective film on machine slides, ways and fixtures.



### Benefits:

- Low foaming
- High lubricity
- Excellent surface finishes
- Improved sump life
- Improved tool life
- Excellent corrosion protection
- Operator friendly
- Mild odor
- Hard water stable
- Easy to clean

### Typical Usage Parameters:

	NuKut SO 5	NuKut SO 15P	NuKut SO 25 Cl
Description	<b>Economy Soluble oil</b>	<b>Non-Cl, S heavy duty</b>	<b>Heavy duty + with Cl</b>
Grinding & Turning Refractometer	2 – 6% 2 to 6	2 – 6% 2 to 6	2 – 6% 2 to 6
Cutoff Saws Refractometer	10% 10	7% 7	5% 5
CNC: Milling, Drilling Refractometer	10% 10	5 - 10% 5 to 10	5 – 10% 5 to 10

### Physical Properties:

	NuKut SO 5	NuKut SO 15P	NuKut SO 25 Cl
PH 5% (in RO water)	9.0	9.0	9.0
Bulk Density, #/gal	8.5	8.5	8.6
Flash point	> 400°F	> 400°F	> 400°F
Chelates	None	None	None
Solubility in water (water 1 <sup>st</sup> )	Complete	Complete	Complete
Biodegradable	Yes	Yes	Against
Nitrites/nitrates	No	No	No
Refractive index	1	1	1
Cast Iron Chip Test	5%	5%	5%

**COOLANT MANAGEMENT:** Send any NuGenTec Coolant from your sump into our lab for a FREE analysis. Consisting of: actual concentration, pH, Conductivity (TDS), Bacterial counts, % emulsified oil & total oil. Receive recommendations on sump life extension and coolant maintenance.