NS Series Cutting Oils

Dyna-Plex 21C® NS Series Cutting Oils are non-staining fluids with excellent lubricity and anti-weld capability. These fluids are formulated to perform difficult machining operations on a wide variety of metals and may be used as machine oil and hydraulic fluid where system pressures do not exceed 1,000 psi. All products in the series contain an effective anti-mist agent to reduce misting of the cutting oil during high-speed machining operations. Dyna-Plex 21C NS Series Cutting Oils resist foaming, even in high-pressure or high-velocity applications.

NS 300 cutting oil is appropriate for lubricating gears, bearings, and clutches in machine tool lube applications. It is ideal for situations where machine oils and hydraulic fluids leak into the cutting oil reservoir, degrading cutting oil performance. NS 300 has robust lubricity and anti-weld additives, making it the ideal cutting oil for job shops and production facilities working copper, brass, aluminum, and a variety of carbon and alloy steels. Its non-staining nature, tri-purpose capability, and robust additive system make this fluid an excellent choice for reducing the number of cutting oils, lubricants, and hydraulic fluids required in the facility.

NS 150 cutting oil is appropriate for high-speed machining of copper, brass, aluminum, and mild steels. It is a lighter-duty economical version of NS 300, intended primarily for cutting non-ferrous metals and highly-machinable grades of steel. Like NS 300, it can also be used as lube and hydraulic oil.

NS 100 cutting oil is appropriate for high-speed machining of copper, brass, aluminum, and mild steels. It is a non-chlorinated version of NS 150, designed for similar cutting, lube, and hydraulic applications.

PROPERTY	ASTM TEST METHOD	NS 300	NS 150	NS 100
Viscosity @ 40°C, (cSt)	D-445	37	32	32
Color	Visual	Dark Amber	Light Amber	Light Amber
Flash Point (COC), °F	D-92	378°F	378°F	378°F
Sulfur	D-129	Present	Present	Present
Chlorine*	D-4327	Present	Present	None
Lubricity Additives	IR	Present	Present	Present
Copper Strip Corrosion	D-130	1b	1b	1b

*All vLCCP, C21+