



NS CF Series Cutting Oils

Dyna-Plex 21C[®] NS CF Series Oils are clear, chlorine-free, non-staining, tri-purpose oils with excellent lubricity and anti-weld capabilities. These cutting fluids are designed for moderate to heavy-duty machining operations on a wide variety of ferrous and non-ferrous metals. Each cutting oil in the series contains effective anti-mist and non-silicone defoamant additives.

Dyna-Plex 21C NS 300 CF is appropriate for use in lubricating gears, bearings, slideways, and clutches in machine tool applications. It is ideal for situations where lube and hydraulic oils leak into the cutting oil reservoir, degrading machining performance. It can be used as anti-wear hydraulic fluid for machine tool systems operating at modest pressures (<2,000 psi). Dyna-Plex 21C NS 300 CF is an excellent choice for multi-metal production facilities and job shops working copper, brass, aluminum, carbon steels, and alloy steels. It has demonstrated good machining characteristics in high-speed Swiss and CNC units cutting 300 series stainless steels. Its non-staining nature, tri-purpose capability, and robust lubricity and anti-weld additives make Dyna-Plex 21C NS 300 CF an ideal choice for product consolidation.

Dyna-Plex 21C NS 22 CF is a lower-viscosity version (22 cSt) designed for high spindle speeds on Swiss-style machines and CNC machines using cutting oil. It has the same machining properties as Dyna-Plex 21C NS 300 CF.

Dyna-Plex 21C NS 100 CF is an economical tri-purpose oil formulated primarily for machine shops working copper, brass, aluminum, and mild steels. It can be used effectively in lube applications and in hydraulic systems operating at low pressures (<1,000 psi).

Dyna-Plex 21C NS CF Series Oils:

- Maintain robust AW and EP characteristics without staining yellow metals
- Do not contain chlorinated paraffins
- Are formulated for compatibility with our active HD CF Series oils
- Reduce smoke and mist
- Machines remain clean and free of varnish and sludge
- Do not foam in high-speed machining applications with high-pressure delivery
- Have high flash points to reduce the risk of fires

<u>PROPERTY</u>	<u>ASTM TEST METHOD</u>	<u>NS 300 CF</u>	<u>NS 100 CF</u>	<u>NS 22 CF</u>
Viscosity @ 40°C, (cSt)	D-445	37	37	22
Color	Visual	Clear Yellow	Clear Yellow	Clear Yellow
Flash Point (COC), °F	D-92	400°F	400°F	390°F
Sulfur	D-129	None	None	None
Phosphorus	D-1091	Present	Present	Present
Chlorine	D-4327	None	None	None
Lubricity Agents	IR	Present	Present	Present
Four-Ball Weld (kgf)	D-4172	315	250	315
Copper Strip Corrosion	D-130	1a	1a	1a

MW-10/06.20.17