



HICKS oils
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F O R M U L A



Anti-Wear Dielectric Oils

FORMULA 500® Anti-Wear(AW) Dielectric Oils are superior anti-wear hydraulic and circulating fluids specially formulated with high quality base stocks and improved thermally stable zinc additives. These oils offer outstanding resistance to sludge formation, are chemically stable, and exhibit excellent anti-wear properties. FORMULA 500® AW Dielectric Oils also contain anti-foam agents to limit air entrainment in hydraulic systems, and demulsifiers to separate water from the oil in the sump.

FORMULA 500® AW Dielectric Oils are recommended for service in vane, piston, and gear pumps when used according to the manufacturers' recommendations. The oils provide maximum service life to these pumps as well as other system components.

FORMULA 500® AW Dielectric Oils meet the following specifications:

- Denison HF-0, 1, and 2
- Vickers M-2950-S, I-286-S
- Cincinnati Milacron P-68, 69, 70
- US Steel 126, 127, and 136
- DIN 51524, Parts 2 and 3

Typical Properties:

Product: FORMULA 500® Anti-Wear Dielectric Oils				
ISO Viscosity	22	32	46	68
Product Code	90457	90454	90455	90456
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	4.30	5.40	6.80	8.70
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	22.00	32.00	46.00	68.00
Viscosity Index (ASTM D-2270)	100	100	100	100
Turbine Oxidation (ASTM D-943)	5000	5000	5000	5000
RPVOT, min (ASTM D-2272)	300	300	300	300
Emulsion Separation, min (ASTM D-1401)	10	10	15	15
Pour Point, °C (ASTM D-97)	-24	-37	-20	-25
Flash Point, °F (ASTM D-92)	(no data)	435	446	470
Dielectric Strength, kV (ASTM D-877) *	35	35	35	35

*Dielectric strength results are only guaranteed in original sealed drums for 1 year. Note that any contamination of the drum after opening will change the dielectric properties of the fluid.