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## Industrial EP Gear Oils

FORMULA 500® Industrial EP Gear Oils have excellent oxidative and thermal stability allowing them to resist thickening produced by high temperatures. FORMULA 500® EP Gear Oils are non-corrosive to gear and bearing materials such as steel, copper, bronze, Babbitt, and cadmium-nickel. These oils provide superior foam resistance and water separation, as well. The low pour points of the lower viscosity grades (ISO VG 68, 100, 150) make them suitable for gears and bearings exposed to winter weather.

FORMULA 500® Industrial EP Gear Oils excel in the lubrication of heavily loaded enclosed gear drives and reducers on drives of all sizes. FORMULA 500® EP Gear Oils lubricate a variety of gears including spur, bevel, and herringbone designs. They are also suitable for industrial hypoid type gears where speed, temperature, and load are not excessive. FORMULA 500® EP Gear Oils can be used with bath, splash, circulating, and spray-type lubrication systems.

FORMULA 500® Industrial EP Gear Oils are ideal for applications such as steel mills where gear cases are often near red-hot steel; and are for use in circulating systems where water contamination is a hazard. FORMULA 500® EP Gear Oils are suitable for a wide variety of industrial and mobile equipment, gear systems, chain drives, sprockets, plain and anti-friction bearings, slide guides, flexible couplings, etc. FORMULA 500® EP Gear Oils are recommended for use in transmission gear cases and open pit and underground mining machinery.

FORMULA 500® EP Gear Oils meet the performance requirements of extreme pressure lubricants of the American Gear Manufacturer's Association (AGMA) Specification 9005-D94. They also meet US Steel specification 224 requirements, and Joy TO-LEP (ISO 68), TO-MEP (ISO 220), TO-HEP (ISO 320).

FORMULA 500® Industrial EP Gear Oils are not recommended for the lubrication of automotive hypoid gears, for which GL-5 Multi-Purpose Gear Oils are recommended.

### Typical Properties:

Product: FORMULA 500® Industrial EP Gear Oils									
Product Code	1434	1435	1436	1437	1438	1439	90350	90346	90795
ISO Viscosity Grade	68	100	150	220	320	460	680	1000	1500
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	66.3	95.0	148.6	217.7	302.1	461.1	714.6	1010	1520
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	9.1	11.1	14.9	19.1	23.5	31.2	47.3	81.6	111.7
Viscosity Index (ASTM D-2270)	112	102	100	99	99	99	115	160	165
API Gravity (ASTM D-1298)	31.0	29.5	28.9	28.6	27.5	29.1	26.7	23.2	22.2
AGMA number EP	2	3	4	5	6	7	8	8A	9