



RUGGED Precision Industrial Oils

For industrial oil applications, **RUGGED Precision Industrial oils** are high quality oils having effective wear protection properties and good oxidation resistance. PRECISION INDUSTRIAL OILS are available in six viscosity ranges to meet most equipment specifications.

Recommended Applications:

While primarily used as industrial hydraulic oil, PRECISION INDUSTRIAL OILS can serve many other uses. These include general-purpose machine and circulating oil applications, compressor lubrication, air line oils, and many other applications.

Important Characteristics:

PRECISION INDUSTRIAL OILS are blended with selected premium quality paraffinic base oils and selected additives to provide these essential characteristics:

- High viscosity index.
- Antirust characteristics.
- Protection against oxidation.
- Foam protection.
- Anti-wear protection.

Exceeds Requirements:

- Denison HF-O, HF-1, HF-2
- Vickers industrial & Mobile applications plus Sperry Vickers I-286-S
- Cincinnati Milacron P-68, P-69, P-70

Rugged Precision Hydraulic Oils will also provide rapid separation in the ASTM D1401 Demulsibility test.

TYPICAL PROPERTIES							
ISO-VG GRADE	ASTM	22	32	46	68	100	150
SAE GRADE		5	10	15	20	30	40
Gravity, °API	D-287	33.0	32.3	31.1	30.1	27.2	26.5
Specific Gravity		.86	.86	.87	.87	.88	.89
FLASH °F	D-92	375	410	419	440	440	450
POUR POINT °F	D-97	-28	-28	-26	-23	-15	-15
Viscosity							
cSt @ 40 °C	D-445	23.5	32.4	44.5	62.8	103.5	152.8
cSt @ 100 °C	D-445	4.7	5.9	7.0	8.4	11.8	15.2
Viscosity Index	D-2270	121	127	115	110	100	100
ASTM Rust Test	D-665 A&B	PASS	PASS	PASS	PASS	PASS	PASS
Oxidation, hr.	D 943			6,500			
Foam, 3-sequences	D-892	PASS	PASS	PASS	PASS	PASS	PASS

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