



# Allied MEGA Industrial R&O Oil

*Specially formulated for superior protection in a wide range of industrial applications that require extra protection against oxidation, rust and corrosion.*

Specific lubricant grades utilize 100% virgin high viscosity index paraffinic base oils blended with higher viscosity solvent neutral oils and heavy bright stocks to provide the stable finished viscosity needed for each application

**Allied MEGA Industrial R&O Oils** provide superior thermal and oxidative stability to prevent formation of harmful deposits and have outstanding low and high temperature properties. They have excellent solubility characteristics and help keep the system clean and void of free water.

They contain a high-level treat of the rigorously tested and field proven rust and corrosion inhibitor additive system to provide unsurpassed protection against rust, corrosion and wear. They contain anti-foam agents to ensure smooth operation and continuous lubrication.

All Allied products are formulated to meet, or exceed, all relevant industry standards. The chart below highlights the key protection and performance features and benefits provided by our **Allied MEGA Industrial R&O Oil**.

## FEATURES

100% virgin high viscosity base oils blended with heavy stocks exhibiting excellent solubility

Utilizes newest, most advanced, rust and corrosion inhibitor and anti-oxidants additive system

## BENEFITS

- Superior thermal and oxidative stability to prevent deposit formation and fluid thickening
- Maintains proper oil flow and viscosity for outstanding wear protection, especially under severe operating conditions
- Excellent demulsibility to prevent rust and corrosion
- Unsurpassed protection against rust and corrosion in a wide variety of applications
- Anti-oxidation for clean systems and long fluid life
- Excellent anti-foam properties to ensure smooth operation and continuous lubrication



To find out more about our products and services, contact us at: (402) 344-4343 or visit [www.alliedoil.com](http://www.alliedoil.com)



# Allied MEGA Industrial R&O Oil

Allied MEGA Industrial R&O Oils are recommended for industrial hydraulic, turbine, and compressor systems, as well as electric motors, vacuum pumps and gear boxes requiring the following performance levels:

- Cincinnati Machine P-68, P-69, P-70
- ASLE 150-215-315
- Denison HF-1/HF-0
- DIN 51524, Part 1
- Lee Norse 100-1
- MIL-H-24459
- U.S. Steel 127
- Sperry Vickers I-286-S & M-2950-S
- Ford M6C32

## Typical Properties:

PROPERTY	METHOD	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100
Gravity, °API	ASTM D287	34.11	32.63	32.65	30.81	29.94
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8544	0.8621	0.862	0.8718	0.8765
Viscosity @ 40°C cSt	ASTM D445	21.15	32.38	46.65	68.92	101.9
Viscosity @ 100°C cSt	ASTM D445	4.26	5.565	6.96	8.89	11.4
Viscosity Index	ASTM D2270	106	109	106	102	106
Pour Point °C (°F)	ASTM D5950	-33°C (-28°F)	-33°C (-28°F)	-33°C (-28°F)	-33°C (-28°F)	-33°C (-28°F)
Color	ASTM D 1500	0.5	0.5	0.5	0.5	0.5
Phosphorus, wt. %	ASTM D 5185	0.003	0.003	0.003	0.003	0.003
Sulfur, wt. %	ASTM D 4951	0.011	0.011	0.011	0.011	0.011
Sulfated Ash, wt. %	ASTM D 874	0	0	0	0	0
Nitrogen, wt. %	ASTM D 4629	0.0164	0.0164	0.0164	0.0164	0.0164

CLAIMS INFORMATION	METHOD	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100
		Denison HF-1	Cincinnati Machine/ Milacron P-38	Cincinnati Machine /Milacron P-55	Cincinnati Machine/ Milacron P-54	Denison HF-1
		DIN 51524, Part 1	Denison HF-1	Denison HF-1	Denison HF-1	DIN 51524, Part 1
		Alstom HTGD 90117	DIN 51524, Part 1	DIN 51524, Part 1	DIN 51524, Part 1	Alstom HTGD 90117
		General Electric	Alstom HTGD 90117	Alstom HTGD 90117	Alstom HTGD 90117	General Electric
		GEK-32568F,				GEK-32568F,
		GEK107395				GEK107395
		Solar Turbines ES 9-224				Solar Turbines ES 9-224
		DIN 51515	General Electric	General Electric	General Electric	DIN 51515
		U#S# Steel 126	GEK-32568F,	GEK-32568F,	GEK-32568F,	U#S# Steel 126
		MIL-L-17672C	GEK107395	GEK107395	GEK107395	MIL-L-17672C
		AFNOR E-48600 HL	Solar Turbines ES 9-224	Solar Turbines ES 9-224	Solar Turbines ES 9-224	AFNOR E-48600 HL
		British Standard 489	DIN 51515	DIN 51515	DIN 51515	British Standard 489
			U#S# Steel 126	U#S# Steel 126	U#S# Steel 126	
			MIL-L-17672C	MIL-L-17672C	MIL-L-17672C	
			AFNOR E-48600 HL	AFNOR E-48600 HL	AFNOR E-48600 HL	
			British Standard 489	British Standard 489	British Standard 489	

PROPERTY	METHOD	ISO 150	ISO 220	ISO 320	ISO 460
Gravity, °API	ASTM D287	28.08	27.35	26.35	24.91
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8867	0.8908	0.8964	0.9047
Viscosity @ 40°C cSt	ASTM D445	153.3	218.7	323.3	480.5
Viscosity @ 100°C cSt	ASTM D445	15.51	18.8	24.4	31.44
Viscosity Index	ASTM D2270	103	96	96	96
Pour Point °C (°F)	ASTM D5950	-27°C (-17°F)	-21°C (-6°F)	-18°C (0°F)	-15°C (5°F)
Color	ASTM D 1500	2	2.5	3	3.5
Phosphorus, wt. %	ASTM D 5185	0.003	0.003	0.003	0.003
Sulfur, wt. %	ASTM D 4951	0.011	0.011	0.011	0.011
Sulfated Ash, wt. %	ASTM D 874	0	0	0	0
Nitrogen, wt. %	ASTM D 4629	0.0164	0.0164	0.0164	0.0164

CLAIMS INFORMATION	METHOD	ISO 150	ISO 220	ISO 320	ISO 460
		Cincinnati Machine/ Milacron P-57	Denison HF-1	Denison HF-1	Denison HF-1
		Denison HF-1	DIN 51524, Part 1	DIN 51524, Part 1	DIN 51524, Part 1
		DIN 51524, Part 1	Alstom HTGD 90117	Alstom HTGD 90117	Alstom HTGD 90117
		Alstom HTGD 90117	General Electric	General Electric	General Electric
		General Electric	GEK-32568F,	GEK-32568F,	GEK-32568F,
		GEK107395	GEK107395	GEK107395	GEK107395
		Solar Turbines ES 9-224	Solar Turbines ES 9-224	Solar Turbines ES 9-224	Solar Turbines ES 9-224
		DIN 51515	DIN 51515	DIN 51515	DIN 51515
		U#S# Steel 126	U#S# Steel 126	U#S# Steel 126	U#S# Steel 126
		MIL-L-17672C	MIL-L-17672C	MIL-L-17672C	MIL-L-17672C
		AFNOR E-48600 HL	AFNOR E-48600 HL	AFNOR E-48600 HL	AFNOR E-48600 HL
		British Standard 489	British Standard 489	British Standard 489	British Standard 489

**ALWAYS CONSULT OWNERS MANUAL FOR CORRECT VISCOSITY GRADE**

Due to our goal of continuous improvement and commitment to keep pace with changing requirements, the information contained in this product sheet is subject to formulation changes without notification. Check with your Allied sales representative to make sure you have the most up-to-date product sheet. The version to reference is located in the right hand corner of this product sheet.

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