

Irving D & E Premium Turbine Oil

Features & Benefits

- Prevents corrosion
- Resists foaming
- Resists oxidation —ensures long oil life
- Wide operating temperature range
- Excellent low-temperature fluidity
- Effective oxidation and corrosion inhibitor additives
- Separates readily from water
- Safe for delicate silver-plated components



Irving D&E oils are blended from high viscosity, pure paraffinic base stocks and contain very effective oxidation and corrosion inhibitors.

Irving D&E oils are extremely stable, have low carbon-forming tendencies, separate quickly from water and have good air-release properties.

Irving D&E oils are recommended for use in light duty (no EP) reduction gears and circulating oil systems.

Irving D&E in lighter grades meet the specifications of major turbine manufacturers for turbine oils in direct-drive, land-installed turbines and for gas turbine lubrication.

Irving D&E 220 is an excellent lubricant for dryer bearing lubrication systems where filters as fine as 3 microns are sometimes used to ensure system cleanliness.

Specifications

Meets Requirements Of	D&E 22	D&E 32	D&E 46	D&E 68	D&E 100	D&E 220
General Electric GEK 32568K, GEK 107395 & GEK 46506E	-	✓	-	-	-	-
Solar Turbines ES9-224	-	✓	✓	-	-	-
DIN 51524-1; DIN 51515-1	-	✓	✓	✓	-	-
Parker Denison HF-0 Bench Tests	-	✓	✓	✓	-	-
AIST 125	-	✓	✓	✓	✓	-
AGMA 9005 F16-R0	-	✓	✓	✓	✓	-

Typical Results

TEST METHOD	22	32	46	68	100	220
VISCOSITY (D445)	23.1	32.5	42.8	68.9	99.4	222.9
cSt @ 40°C	4.4	5.8	6.9	9.5	12.0	20.7
cSt @ 100°C						
VISCOSITY INDEX (D2270)	98	122	119	117	111	109
DENSITY @ 15 °C (D4052) KG/L	0.86	0.85	0.85	0.86	0.87	0.89
POUR POINT (°C) (D97)	-42	-38	-40	-36	-29	-19
FLASH POINT (°C) (D93)	190	222	223	228	236	231
OXIDATION LIFE (HRS) (D943)	2500 + ALL GRADES					
TAN (D664) (mgKOH/g)	0.21	0.11	0.11	0.11	0.08	0.09
WATER SEPARABILITY (D1401) 54.0°C	40/40/0 (5)	40/37/3 (10)	40/37/3 (20)	40/37/3 (10)	-	-
WATER SEPARABILITY (D1401) 82.0°C	-	-	-	-	40/37/3 (10)	40/37/3 (15)
FOAM SEQ. I (D892)	0/0	20/0	0/0	0/0	0/0	0/0

www.irvingoil.com/lubricants
1.800.574.5823

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice.

This data sheet replaces previous versions prior to 08-12-19.

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Irving D & E

Premium Turbine Oil

Size & Order Codes

D&E 22	D&E 32	D&E 46	D&E 68	D&E 100	D&E 220
18.9 L Pail/5 US GAL N/A	18.9 L Pail/5 US GAL F0084040	18.9 L Pail/5 US GAL N/A	18.9 L Pail/5 US GAL F0084340	18.9 L Pail/5 US GAL F0083640	18.9 L Pail/5 US GAL N/A
205 L/54.2 US Gal Metal Drum F0001650	205 L/54.2 US Gal Metal Drum F0011250	205 L/54.2 US Gal Metal Drum N/A	205 L/54.2 US Gal Metal Drum F0011550	205 L/54.2 US Gal Metal Drum F0010850	205 L/54.2 US Gal Metal Drum F0011150
205 L/54.2 US Gal Plastic Drum N/A	205 L/54.2 US Gal Plastic Drum F0091750	205 L/54.2 US Gal Plastic Drum F0002050	205 L/54.2 US Gal Plastic Drum N/A	205 L/54.2 US Gal Plastic Drum F0001250	205 L/54.2 US Gal Plastic Drum N/A
1000L/264 US Gal N/A	1000L/264 US Gal F0001860	1000L/264 US Gal N/A	1000L/264 US Gal N/A	1000L/264 US Gal N/A	1000L/264 US Gal N/A
Bulk B0001601	Bulk B0001801	Bulk B0002001	Bulk B0002101	Bulk B0001201	Bulk N/A

Always consult your owner's manual for verification of fluid type and grade!

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