

#LU210 – ISO 68
 #LU222 – ISO 100
 #LU211 – ISO 150
 #LU212 – ISO 220
 #LU213 – ISO 320
 #LU214 – ISO 460



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Ultragear IGL EP Gear Oils

Tech Bulletin

Product Description

Ultragear IGL EP Gear Oils are designed to surpass the performance of currently available industrial gear oil products. They are thermally stable and provide an extreme pressure additive system to protect the gear boxes against wear and to prevent the formation of sludge. EP protection is maintained across the wide range of available ISO viscosity grades. They provide outstanding wear protection, cleanliness, sludge prevention and water separation.

Product Performance

- DIN 51517-3
- US Steel
- ISO 12925-1 CKC / CKD
- Cincinnati Machine (P-59 and C Series)
- AGMA 9005-E02 EP
- GM LS-2

Typical Properties

	<u>ASTM</u>	<u>LU210- ISO 68</u>	<u>LU222- ISO 100</u>	<u>LU211- ISO 150</u>	<u>LU212- ISO 220</u>	<u>LU213- ISO 320</u>	<u>LU214- ISO 460</u>
AGMA Number	--	2EP	3EP	4EP	5EP	6EP	7EP
Viscosity:							
cSt at 40°C	D-445	66	105	153	230	324	452
cSt at 100°C	D-445	8.4	11.5	14.8	19.3	24.2	30.1
Viscosity Index	D-2270	96	96	96	95	95	95
Gravity, ° API	D-287	30.4	29.5	29.3	27.9	26.9	25.7
Flash point, (COC) °F	D-92	400	430	410	415	450	460
Pour point, °F	D-97	-5	-5	-5	0	5	15
Load carrying properties:							
Timken OK Load, lb.	D-2782	70	70	70	70	70	70
4-Ball EP Test	D-2783						
Load-wear index, kg		57	57	57	57	57	57
Weld point, kg		400	400	400	400	400	400
4-Ball Wear Test	D-2266						
1 hr, 1800 rpm, 54°C, Wear scar diameter, mm		0.27	0.27	0.27	0.27	0.27	0.27
FZG gear test, stages	--	12	12	12	12	12	12

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SPECIALTY LUBRICANTS

**Typical
Properties**

	<u>ASTM</u>	<u>LU210- ISO 68</u>	<u>LU222- ISO 100</u>	<u>LU211- ISO 150</u>	<u>LU212- ISO 220</u>	<u>LU213- ISO 320</u>	<u>LU214- ISO 460</u>
Demulsibility	D-2711						
Total free water, ml		85	85	85	85	85	85
Water in Oil, ml		0	0	0	0	0	0
Emulsion, ml		0.3	0.3	0.3	0.3	0.3	0.3
Rust test	D-665A/B						
Distilled Water		PASS	PASS	PASS	PASS	PASS	PASS
Salt Water		PASS	PASS	PASS	PASS	PASS	PASS
Copper strip corrosion	D-130	1A	1A	1A	1A	1A	1A
Foam Test, Foam Vol, ml	D-892	0/0	0/0	0/0	0/0	0/0	0/0

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