

WearGuard™ D-A FQG WO Series are food grade gear oils that are formulated with USP grade white oils. These NSF registered food grade gear oils are engineered to provide superior lubrication protection where food contact may occur.



Applications

- Bearings
- Gear Sets
- Pumps
- Chain Applications
- Meat Processing Plants
- Poultry Processing Plants
- Food Processing (H1)
- High and Low Pressure Gear and Vane Systems
- Extended drain intervals when oil sampling
- General purpose use where incidental food contact may occur

Characteristics

- Made from USP grade white oils
- Excellent compatibility with elastomers, seals, plastics, and paints
- Protects lubricants from microbial degradation
- Complies with FDA 21 CFR 178.3570 H1

Typical Properties

| WearGuard™ D-A FQG WO Series | ASTM Test | WearGuard™ D-A FQG WO ISO 150 | WearGuard™ D-A FQG WO ISO220 | WearGuard™ D-A FQG WO ISO 320 | WearGuard™ D-A FQG WO ISO 460 |
|--------------------------------------|-------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|
| Viscosity @ 40°C, cSt | ASTM D 445 | 148.3 | 220.2 | 312.7 | 456.3 |
| Viscosity @ 100°C, cSt | ASTM D 445 | 15 | 19.5 | 25 | 31.9 |
| Viscosity Index | ASTM D 2270 | 101 | 100 | 103 | 101 |
| ISO Viscosity Grade | ASTM D 2422 | 150 | 220 | 320 | 460 |
| AGMA Gear Classification | | 4EP | 5EP | 6EP | 7EP |
| Pour Point, °F (°C) | ASTM D 97 | 0 (-18) | 2 (-19) | 0 (-18) | -7 (-22) |
| Flash Point, °F (°C) | ASTM D 92 | 464 (240) | 464 (240) | 496 (258) | 496 (258) |
| Fire Point, °F (°C) | ASTM D 92 | 525 (274) | 525 (274) | 523 (273) | 522 (272) |
| Copper Strip Corrosion | ASTM D 130 | 1a | 1a | 1a | 1a |
| Rust Test | ASTM D 665 | | | | |
| Method A - Distilled Water | | Pass | Pass | Pass | Pass |
| Method B - Syn. Sea Water | | Pass | Pass | Pass | Pass |
| Four-Ball Wear, mm | ASTM D 4172 | 0.4 | 0.4 | 0.38 | 0.35 |
| Foaming Characteristics | ASTM D 892 | | | | |
| Sequence I | | 10/0 | 8/0 | 12/0 | 10/0 |
| Sequence II | | 6/0 | 8/0 | 8/0 | 12/0 |
| Sequence III | | 8/0 | 6/0 | 10/0 | 8/0 |
| Water Separability | ASTM D 1401 | 40-40-0 (20) | 40-40-0 (20) | 40-40-0 (20) | 40-40-0 (20) |
| FZG Rating, Fail Load Stage | DIN 51354 | 12+ | 12+ | 12+ | 12+ |
| NSF Registration No. / Category Code | | In Process | 154602/H1 | 154603/H1 | 154604/H1 |



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