

Clenzoil Field & Range

Product Analytical Specifications

The following technical specifications are the result of independent laboratory analysis of the Clenzoil "Field & Range," product. Many of these tests have been run periodically over the last several decades to insure consistent quality control standards are continually adhered to during the manufacturing process.

It is logical to assume that multiple laboratories have been used to provide controlled environment analysis of the Clenzoil product line, as the Clenzoil Worldwide Corporation has manufactured these products for almost six decades. However, to the best of Clenzoil Worldwide management's knowledge, in all tests and evaluations performed, nationally and internationally recognized chemical testing standards such as ASTM (American Standards of Tests and Measurements) were adhered to.

While these published laboratory results are considered to be specific in nature, they should not be considered all encompassing regarding their application to non-laboratory controlled environments. In many instances the actual "real world" field application of the "Field & Range" product, may exceed performance demonstrated in the controlled environment (laboratory) tests.

Technical Specifications:

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| Flash Point > | 100 C |
| Flame Point > | 152 C |
| Specific Gravity > | .98757 gm/ml |
| Rust/ Corrosion Prevention > | PASS (ASTM D 665) |
| Tombac Corrosion Analysis > | 2A |
| Viscosity Index > | 281 |
| Viscosity at +40 C > | 9 CST. MIN. |
| Viscosity at +100 C > | 5.3 CST MIN. |
| Pour Point > | -54 C (ASTM D97) |
| Residue & Fluidity @ -50 C > | Permit Movement |
| Demulsibility @ 54 degrees Celsius > | 40-37-3 (15 minutes) (ASTM D 1401) |
| Oil Analysis Severity > | Normal |
| Shell 4-ball Scar Diameter > | 0.85 mm at maximum point (ASTM D2266) |
| Falex Wear Life > | 20 minutes @ 250 lbs. |
| Falex Peak Load > | 1 minute @ 750 lbs. |
| Water Displacement and Water Stability > | No Corrosion (Product is <u>Not</u> Water Based) |
| Chemical Agent Detector Paper > | No Affect |
| Weight > | Approximately .95 kg/ liter |
| Salt Spray Resistance > | (5%) 100+ hours |
| Humidity Cabinet Test > | 900+ hours (Federal Standard 791) |
| Operating Temperature Range > | -50.2 C to +243 C |
| Noncorrosive > | ph Neutral |
| Projectile Wadding Breakdown> | Excellent Neutralization Rating |
| Carbon Residue Removal> | Excellent Dissolution Rating |
| Ballistic Propellant Displacement> | Excellent Dissolution Rating |

Safety Information:

Even though Clenzoil "Field & Range" is a "hybrid" type of lubricant, it does contain some petroleum distillates, so it must carry the package warning label: " Harmful or fatal if swallowed. If swallowed, do not induce vomiting. Call Physician immediately." Irritant to eyes. Flush eyes thoroughly with water. Over inhalation, use in open space. Never store any petroleum distillate products with food. Contains no Freon propellants or butane/ propane propellants. Contains no varnish or lacquer or similar components. Contains no Teflon or silicone based products, resulting in extremely low "Pour Point" as well as enhanced "Operating Temperature Range."

Fire Fighting:

Use Foam, CO2 or dry chemical extinguisher. Cool with water spray.

