

Wire Rope Greases Four Ball Wear Tests

- Testing water-based eco-friendly greases for wires
- Ranking water-based grease wear reduction properties



Greases are widely used to lubricate heavy wire ropes and to protect them from corrosion. Recently water-based eco-friendly greases were introduced, as they offer advantages like room temperature application, less use of reagents or cleaning agents, and availability in smaller quantities with overall impact on cost. Before commercialising the wear protection properties of water based greases must be tested in comparison with conventional greases. The **Falex Four Ball Wear test method ASTM D2266** can be successfully used to compare the new waterbased lubricants with conventional ones.

Falex 4-ball wear test ASTM D2266 method clearly shows the improvement in friction reduction and in wear protection.

Optimised water-based greases perform better than commercial grease.

They form a consistent and adherent coating which is load bearing and prevents wear.

