

Technical Data Sheet



RP620 Calcium Salt Based Rust Preventative Package

Description

RP620 is a high-performance calcium salt rust preventative package that contains no barium or heavy metals.

It features low viscosity and excellent blending performance, with great compatibility with most industrial solvents and mineral base oils.

RP-620 possesses outstanding water displacement and separation capacity, providing reliable rust protection for most metal materials including carbon steel and cast iron. When mixed with oil or solvent carriers, it forms an ultra-thin, nearly colorless protective film on metal surfaces.

Features and benefits

1. Free of barium and heavy metals.
2. Outstanding salt spray protection.
3. Excellent water displacing & separating properties.
4. Non-corrosive to a variety of non-ferrous metals.
5. Leaves a thin, colorless protective film.
6. Excellent compatibility with most solvent and mineral oil.
7. Low viscosity, easy to blend.

Typical physical and chemical properties

Test Item	Test Standard	Technical Index
Appearance	Visual inspection	Reddish brown liquid
Kinematic Viscosity @ 40°C, mm ² /s (cSt)	GB/T 265	150 ~ 180
Open Cup Flash Point, °C	GB/T 3536	> 120
Salt Spray Corrosion Resistance (Cast iron substrate, 8h test)	SH/T 0081	Qualified
Damp Heat Resistance (192h test cycle)	GB/T 2361	Qualified
Copper Corrosion Test (100±2°C, 3h, pure copper coupon)	GB/T 5096	Grade ≤ 2

Application & Usage Guidance

- Applicable Formulations: It can be compounded into water-displacement dehydrating anti-rust oil, long-term sealed storage anti-rust oil and thin-film temporary anti-rust oil.
- Recommended Dosage: 8% ~ 15% by weight of the total oil formula. The addition proportion can be adjusted according to target anti-corrosion requirements and service environments.
- Operation Tip: Stir the additive evenly before mixing with base oil or solvent oil for uniform performance.

Storage & Handling Precautions

- Store the product in a cool, ventilated and dry warehouse, avoid direct sunlight and continuous high temperature.
- Keep oil tanks or storage drums fully covered when not in use to prevent dust, moisture and foreign contaminants from polluting the liquid.

Packaging Specification

- Standard Package: 200L sealed metal drum, net weight approx. 190 kg per drum
- Custom Package: 1000L IBC tote tank is available upon customer's special request

Shelf Life

Under intact original sealed packaging and proper storage conditions, the shelf life is **12 months** from production date.

Disclaimer

All technical parameters contained in this TDS are only for formulation reference. FANCHU shall not be responsible for metal corrosion losses caused by improper blending ratio, incorrect operating process or unsuitable application scenarios beyond the recommended scope. End users are advised to conduct small-scale compatibility and anti-rust verification tests before mass production.