

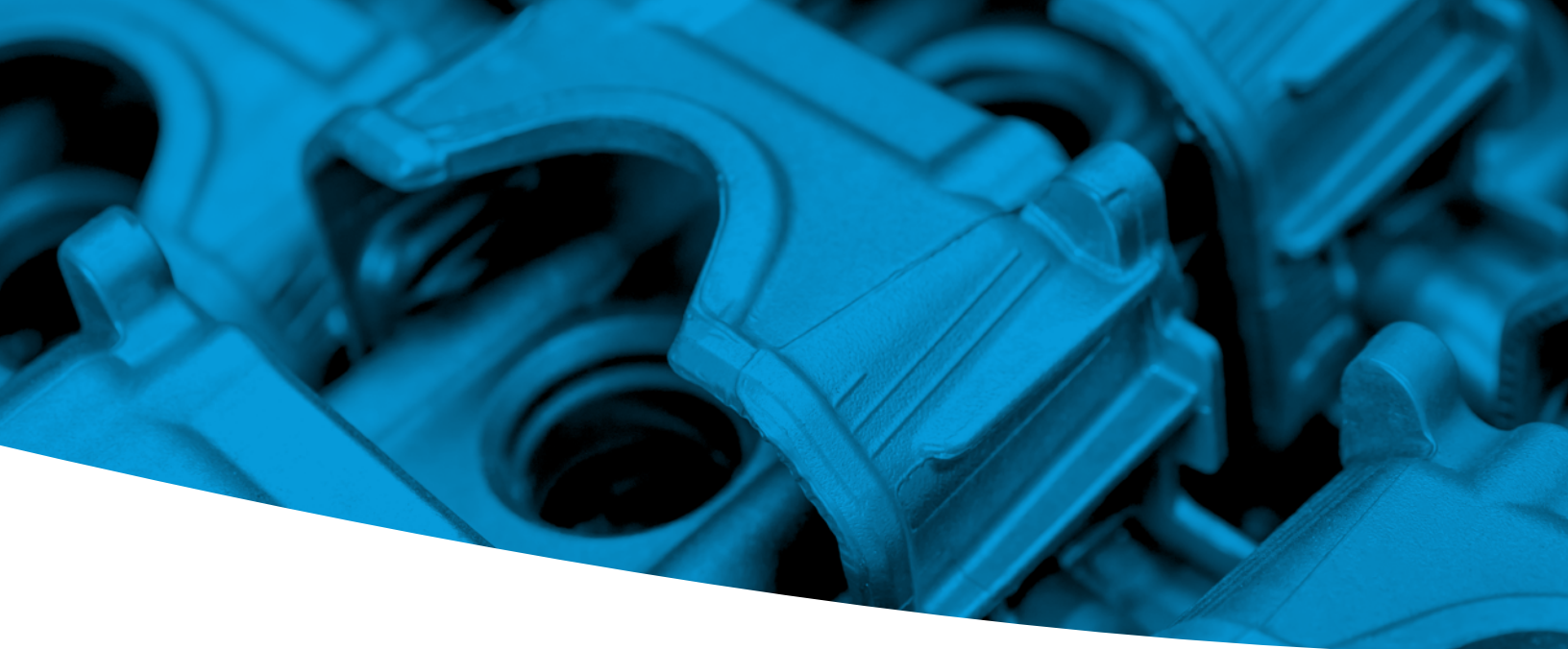


METAL PROTECTION

Protecting Your Competitive Advantage. **Together.**

Core Metal Protection Products for North America





Metal Protection

Rust and corrosion are the naturally occurring enemies of machined parts. Moisture, oxygen, dirt and residues from other metalworking fluids can cause serious damage. Quaker Houghton's complete line of solvent, oil and water-based, and grease/wax corrosion preventives protect metal parts during production and in storage, both indoor and outdoor. Our metal protecting product line is well-proven throughout the aerospace, automotive, bearing, steel and offshore industries and wherever metal components are manufactured.

Applications

- In-process rust protection
- Final rust protection
- Post tempering
- Hydrostatic testing
- Light lubrication
- Light cleaning

Soluble Oils : Water dilutable, Barium-free

RUST VETO® 4221 NB

Very stable emulsion, best heat tolerance. Applied by dip or spray, indoor protection 6-12 months.

RUST VETO® 4222 S

Core soluble oil product, good emulsion stability excellent humidity protection. Applied by dip or spray, indoor protection 12 months.

RUST VETO® 4295-PT

Very stable emulsion, thinnest soluble oil film, biostable. Applied by dip or spray, indoor protection 6-12 months.

Greases & Waxes : Neat, compatible with all metals

RUST VETO® HEAVY

Rust inhibiting grease for brush-on application or hot dip. Melting point 120°F. Provides light lubrication. Applied by dip or brush, 36 months indoor protection and 6 months shed protection.

FERROCOTE® B 53 TX

Wax that is high pressure performance conforming to API GL5. Break-in bearing lubrication. Dip application with 12 months outdoor protection.

FERROCOTE® 5815 LVO

Thixotropic (wax) that is barium-free solvent-dispersed RP. Applied by dip or brush, 12 months indoor protection 6 months outdoor.

Solvent-Based: Neat, compatible with all metals

RUST VETO® 76-MB

Fortified for when extra rust protection is needed. Applied by dip or spray, indoor protection 18 months.

COSMOLINE® 1104

Fingerprint removal products for precision parts such as aerospace bearings. Applied by dip or spray.

RUST VETO® 2147

Oily corrosion preventive for severe applications. Excellent for cast iron. Applied by dip or spray, 12 months indoor protection, 2 months shed protection.

RUST VETO® 342

Dry, waxy film for uncovered, extended outdoor protection. Translucent film allows visibility of metal surface. Applied by dip, spray, or brush. Indoor protection 3+ years, 2 years outdoor protection.

RUST VETO® 344

Black asphaltic-based for outdoor rust protection. Applied by dip, spray, or brush. Indoor protection 36+ months, 24 months outdoor protection.

RUST VETO® 377-HF

Moderate drying, excellent salt spray performance. Excellent salt spray performance for packaged overseas shipments. Applied by dip or spray, 12 months indoor 6 months shed protection.

RUST VETO® 4214-HF

Medium flash, moderate drying time. Core product for water displacing and water separating applications. Applied by dip or spray, 12 months indoor protection.

FERROCOTE® 5856 BF T1

Barium-free, excellent moisture displacement and fingerprint neutralization with thinner film than FC 5856 BF. Significant field experience. Approved at Timken, Ford, Koyo, NN Ball, Caterpillar. Applied by dip or spray, 1-5 years protection.

RUST VETO® 4242

High solids, low VOC. Leaves thin film, applied by dip or spray. 12 Months indoor protection.

WOCOTEC 3204

Value grade 3 month for all metals. Applied by dip or spray. 3 months indoor protection.

FERROCOTE® 364 BF T1

Water displacing and fingerprint neutralizing. Applied by dip or spray. 6-12 months indoor protection.

FERROCOTE® 5856 BF

Barium-free corrosion preventive offering excellent moisture displacement and fingerprint neutralization. Approved at Timken, Ford, Koyo. Applied by dip or spray. Up to 5 years of indoor protection.

RUST VETO® 4240

Ultra-thin film, low odor. Excellent choice for finished parts where a minimal film is required. Applied by dip. 9-12 months indoor protection.

FERROCOTE® 5856 BF T3

Very thin film, barium-free, offering excellent moisture displacement and fingerprint neutralization. Approved at Timken, Ford, Koyo. Applied by dip or spray. 3 to 6 months indoor protection

FERROCOTE® 364 BF T5

Very thin film, barium-free, light duty protection at a cost effective price. Applied by dip or spray. 3 to 6 months indoor protection

FERROCOTE® 5856 LVO

Same benefits as FERROCOTE® 5856 BF T1 but a higher flash point to comply with certain plant requirements. Applied by dip or spray, 1-5 years indoor protection.

Oil-Based : Neat, low VOC applications

RUST VETO® 210

High flash, thin film oil. Fast packaging, limited drippage. Meets SCAQMD standards. Applied by dip or spray, indoor protection 12 months.

RUST VETO® 210-C

High flash, thin film oil. Fast packaging, limited drippage. Good for wet parts. Applied by dip or spray, indoor protection 12 months.

WOCOTEC 4410

Value grade 6 month RP for steel. Applied by dip or spray, 6 months protection.

FERROCOTE® 5900

Provides low, constant torque during bearing break-in. Applied by dip or spray, 1-5 years protection.

FERROCOTE® 368 BF K1

High flash, thin film oil. Fingerprint neutralization. Applied by dip or spray, 3-6 months protection.

FERROCOTE® 368 BF

High flash, thin film oil. Fingerprint neutralization. Applied by dip or spray, 3-6 months protection.

FERROCOTE® 61 AUS

Mill oil, meets SCAQMD VOC limits. Applied by dip or spray, 6 months indoor protection.

Water-Based : Synthetic, can be biostable

RUST VETO® 2212

Core product, light in-process short term rust protection. Applied by dip or spray, 4 weeks protection.

RUST VETO® 2212 B

Biostable, light in-process short term rust protection. Applied by dip or spray, 4 weeks protection.

FERROCOTE® 624 AAM

Boron-free, biostable in-process in process fluid technology for compatibility with heat treat processes. Not water displacing or separating. Applied by dip or spray, 60 days protection.

FERROCOTE® 155

Meets SCAQMD VOC limits. Not water displacing or separating. Applied by dip or spray, biostable, 2-4 months protection.

Typical Values

PRODUCT	TYPE OF FILM	LENGTH OF PROTECTION	FLASH POINT	WATER DISPLACING	WATER SEPARATING
RUST VETO® 4221 NB	Light, oily	6-12 months indoor	350°F	No	No
RUST VETO® 4222 S	Light, oily	12 months indoor	275°F	No	No
RUST VETO® 4295-PT	Light, oily	6-12 months indoor	295°F	No	No
RUST VETO® HEAVY	Greasy	36 months indoor, 6 months shed	450°F	No	No
FERROCOTE® B 53 TX	Greasy/ waxy thin film	12 months outdoor	>428°F	No	No
FERROCOTE® 5815 LVO	Greasy thin film	12 months indoor, 6 months outdoor	230°F	No	Yes
RUST VETO® 210	Oily	12 months indoor	360°F	No	No
RUST VETO® 210-C	Light oily	12 months indoor	260°F	Yes	Yes
WOCOTEC 4410	Light oily	6 months indoor	320°F	Yes	Yes
FERROCOTE® 5900	Oily	1-5 years indoor	266°F	Yes	Yes
FERROCOTE® 368 BF K1	Light oily	3-6 months indoor	255°F	Yes	Yes
FERROCOTE® 368 BF	Light oily	3-6 months indoor	246°F	Yes	No
FERROCOTE® 61 AUS	Oily	6 months indoor	380°F	No	No
RUST VETO® 2212	Imperceptible	4 weeks indoor	-	No	No
RUST VETO® 2212 B	Imperceptible	4 weeks indoor	-	No	No
FERROCOTE® 624 AAM	Dry, imperceptible	60 days indoor	-	No	No
FERROCOTE® 155	Nearly imperceptible	2-4 months indoor	-	No	No
RUST VETO® 76-MB	Light oily	18 months indoor	150°F	Yes	Yes
COSMOLINE® 1104	Oily	-	108/150°F	No	No
RUST VETO® 2147	Oily	12 months indoor, 2 months shed	180°F	No	No
RUST VETO® 342	Translucent, waxy	3+ years indoor, 2 years outdoor	108°F	Yes	No
RUST VETO® 344	Black, plastic-like	3+ years indoor, 2 years outdoor	108/150°F	No	No
RUST VETO® 377-HF	Greasy	12 months indoor, 6 months shed	150°F	Yes	No
RUST VETO® 4214-HF	Dry to touch	12 months indoor	150°F	Yes	Yes
FERROCOTE® 5856 BF T1	Imperceptible	1-5 years indoor	176°F	Yes	Yes
RUST VETO® 4242	Light oily	12 months indoor	180°F	Yes	Yes
WOCOTEC 3204	Dry to touch	3 months indoor	142°F	Yes	Yes
FERROCOTE® 364 BF T1	Light oily	6-12 months indoor	178°F	Yes	Yes
FERROCOTE® 5856 BF	Imperceptible	1-5 years indoor	194°F	Yes	Yes
RUST VETO® 4240	Dry to touch	9-12 months indoor	145°F	Yes	Yes
FERROCOTE® 5856 BF T3	Imperceptible	3-6 months indoor	163°F	Yes	Yes
FERROCOTE® 364 BF T5	Light oily	3-6 months indoor	>150°	Yes	Yes
FERROCOTE® 5856 LVO	Light oily	1-5 years indoor	230°F	Yes	Yes

