

# TECHNICAL DATA SHEET

## FERROCOTE® 624 AAM

### Corrosion Preventatives

FERROCOTE® 624 AAM is a kind of high quality corrosion preventatives designing for ferrous (steel and cast iron) alloys and non-ferrous (aluminum) alloys. This product will simplify operations and keeps inventory costs low and provide medium to long-term corrosion protection to the metal surface when not rinsed.

### Applications

This mild liquid alkaline liquid cleans and protects metal surfaces in a single processing step. This product is designed for ferrous (steel and cast iron) alloys and non-ferrous (aluminum) alloys.

Ferrocote 624 AAM provides long-term indoor corrosion protection when used in the final stage of a cleaning system, like Spray equipment and Immersion equipment.

The detailed information is shown in the table below:

	Spray Equipment	Immersion Equipment
Concentration	3 – 5%	3 – 8%
Temperature	Ambient to 65°C	Ambient to 65°C
Pressure	5 – 60 psi	
Contact Time	30 seconds – 2 minutes (Dependent on soil condition of part)	2 – 10 minutes

This product is not to be used neat, or at concentrations >10% by volume. The product can be used in one or multi-stage spray or immersion systems. Water rinsing is not necessary or recommended to gain protection.

### The Benefits

- This versatile product is used to clean light soils and protect metal surfaces in one step.
- The product can be used as a synthetic corrosion preventive in dip tanks, sprayers, or as a rinse additive.
- Its mild alkalinity makes it safe for use on both ferrous and non-ferrous metals, reducing inventory and related costs.
- The moderately low pH makes it safer for worker handling, resulting in fewer health issues and claims.
- Low foaming technology means no excess foam generation at temperatures up to 145°F. This means less product consumption and lower costs.
- Its hard water compatibility and imperceptible film on parts facilitates gauging and the handling of parts, leading to fewer rejects and lower operational

### Health, Safety and Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.

Quaker Houghton can supply this quality product in drums (190kg). 4-43°C is the recommended storage temperature for all metalworking products.

To enhance process compatibility, use Quaker Houghton metalworking fluids and cleaners. Consult your Quaker Houghton representative.

All reasonable care has been taken to ensure this publication is accurate upon issue. Such information may be affected by changes subsequent to issue. This Technical Data Sheet is to be used solely for this product. Prior to any use, consult the Safety Data Sheet (SDS) for information on hazard risks and product use parameters. All liability and all warranties express or implied are hereby excluded as to product performance results, the accuracy of these data including any warranty of merchantability or fitness for any purpose. 052171



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## Corrosion Preventatives

### Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance (concentrate)	Clear yellow	
Appearance (dilute)	Clear light yellow	
Odour	Surfactant, light amine	
pH (2%)	10.3	
Density	1060	kg/m <sup>3</sup> , 15°C

#### Titration Procedure for Determining the Concentration

1. Fill graduate cylinder to the 25 ml mark with cleaner sample.
2. Transfer sample to beaker. Dilute to 50ml mark with DI water
3. Add 4-5 drops of Bromophenol Blue to cleaner sample. (Solution will become blue.)
4. Fill burette with 0.5N HCL to the 0.00 ml mark. Ensure tip of burette contains reagent.
5. Titrate sample with 0.5N HCL until the blue color has become yellow-green.
6. Record volume in milliliters of 0.5N HCL.

% Concentration = mls of 0.5N HCL multiplied by 0.76

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