



TECHNICAL INFORMATION BULLETIN

PRODUCT: **WM 9305 Protectall**

DESCRIPTION:

WM 9305 Protectall is a new concentrated blend of selected inhibitors and pH buffers specifically chosen for corrosion protection in mixed metallurgy systems containing aluminum boilers. Protectall technology is based on amine neutralized complexes derived from two organic acids. We have also incorporated a large percentage of yellow metal inhibitor and a small amount of Sodium Molybdate both for functional contribution and as a control test. Corrosion studies in lab test and field trials have yielded corrosion rates on aluminum of less than 0.2 mpy (average) and similar low rates on iron and copper. Compared to traditional "All Organic Phosphonates," Molybdates, and Nitrites, Protectall results are measurably superior. Protectall is highly buffered and formulated to maintain the treated water pH in the range of 7.5-8.0 which complies with boiler (Aluminum) manufacturer specs.

SPECIFICATIONS:

Specific Gravity:..... 1.08-1.09
Colour:..... Clear pale yellow
Odour: Faint amine
pH:..... 7.5-8.0
RI: 26.0

APPLICATION AND CONTROL:

Protectall is a complete corrosion inhibitor package formulated for direct addition to closed loop systems. It may be added by pot feeder or chemical pump injection. A suggested starting feed rate is 1 litre / 100 litres of system capacity or 1% of system capacity calculated v/v. Subsequently sufficient Protectall should be carried in the system to maintain a Molybdenum residual of 60-80 ppm (or as your service representative recommends).

PACKAGING:

225 Kg..... Poly Drums
22 Kg..... Poly Pails
4x4.3 Kg (Case) Poly Jugs

PRECAUTIONS:

- Do not freeze
- Do not take internally
- Avoid contact with skin, eyes and clothing
- Not for use in potable water systems
- Consult label and MSDS before use