



Product Bulletin

Better Chemistry. **Better Business.**

Deoxidizer 4

Product Code: 2551005
Revised Date: 06/13/2006

Deoxidizer 4

Deoxidizer 4 is a dry acid salt which may be used for deoxidizing and desmutting (light smut) wrought aluminum alloys (including alclad) in a rack, barrel or power spray lines.

Deoxidizer 4 is free of chromates, nitrates and fluorides.

ADDITIONAL ADVANTAGES

- no fumes associated with the product or its use.
- easy to handle and warehouse.
- a simple neutralization is required to dispose of the solution.
- non foaming

OPERATING CONDITIONS

Concentration: 8 to 18 (60 to 135 gms/l)
Temperature: room
Equipment: pvc 316 stainless, polypropylene or rubber lined
Agitation: air agitation is beneficial in that agitation will markedly improve the rate of smut removal.

CHEMICAL AND EQUIPMENT

20 ml pipette
25 ml pipette
250 ml erlenmeyer flask
50 ml burette
100 ml graduate
Concentrated hydrochloric acid
30% (wgt) potassium iodide solution
Starch indicator solution
0.1n sodium thiosulfate solution



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CONTROL PROCEDURE

1. Pipette 25 mls. Of the solution into a 250 ml. Erlenmeyer flask and dilute to 100 mls. With water.
2. Add 25 mls. Conc. Hydrochloric acid and 20 mls. Of 30% potassium iodide solution.
3. Let stand 5 minutes, then titrate with 0.1n sodium thiosulfate to the straw color. Note: solution must stand for 5 minutes before titrating with sodium thiosulfate solution.
4. Add 2 mls. Of soluble starch solution and continue titrating until the solution becomes colorless and remains colorless for a minute.

CALCULATION

MLS OF 0.1N Sodium Thiosulfate X 0.51 = OZ/GAL Deoxidizer 4

CAUTION

Deoxidizer 4 is a dry acid salt and should be handled accordingly. Avoid contact with skin and eyes. Wear protective clothing, goggles and rubber gloves. Flush exposed areas immediately with clean, cold water. In case of injury, contact a doctor immediately.

WASTE DISPOSAL

Discharge to a disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.