

Technical Data Sheet • CHEMEON® Deox 3200(A)

Description:

A non iron, peroxide based, liquid oxidizer to which the customer adds acid to produce an effective deoxidizer for all wrought alloys and some castings. Used at 2 - 3% v/v with 6-10% v/v sulfuric acid at room temperature for 1 to 10 minutes.

Operating Conditions:

Method of application:	Immersion
Concentration:	2 – 3% by volume aluminum desmutting/deoxidizing with 6 - 10% by volume sulfuric acid
Temperature:	room temperature
Time:	1 - 10 minutes.
Tank construction:	304 or 316 stainless steel, polyethylene, or rubber lined tanks

Solution Control:

CHEMEON® Deox 3200 concentration:

1. Pipet a 5 mL sample of the bath into a 250 mL beaker.
2. Add ~100 mL of DI water.
3. Add 5 drops of ferroin indicator.
4. Titrate with 0.1 N ceric sulfate until the color changes from red to blue.
5. Record the mL of 0.1 N ceric sulfate necessary to reach the endpoint.
6. Calculation:
$$\text{CHEMEON® Deox 3200 (\% by volume)} = (\text{mL of 0.1 N ceric sulfate}) \times 0.11$$

Sulfuric acid concentration:

1. Pipet a 5 mL sample of desmutting bath into a 250 mL beaker.
2. Add ~100 mL of DI water.
3. Add 4 to 5 drops of phenolphthalein indicator.
4. Titrate with 1.0 N NaOH until pink color appears and persists for at least 30 seconds.
5. Record the mL of 1.0 N NaOH necessary to reach the endpoint.
6. Calculation:
$$\text{sulfuric acid (\% by volume)} = (\text{mL of 1.0 N NaOH}) \times 0.54$$

Should the bath still be sluggish a small additional amount of CHEMEON® Deox 3200 should be added in quart increments to restore the bath to its normal level.



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Physical and Safety Data:

CHEMEON® Deox 3200 is a strong oxidizer which requires the use of rubber gloves, face shields and protective clothing. In case of body contact, flush with water. If material gets in the eyes, flush with water and see a physician. Do not take internally.

Packaging:

55 gallon drums
5 gallon pails

Storage:

CHEMEON® Deox 3200 should be stored in a cool, dry area away from organic materials and metals. Keep drums closed when not in use. Contamination with impurities may have a catalytic action, which can cause the material to violently decompose. CHEMEON® Deox 3200 is not combustible in itself, but by its oxidizing action can cause combustible material to ignite.

Waste Disposal:

Dispose of CHEMEON® Deox 3200 solutions according to Federal, State, and local waste treatment regulations.

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