A BRITE COMPANY
A GOOD START BEGINS WITH AN A BRITE FINISH!

Technical Data Sheet

DEOXIDIZER™ NC-620

- ***Easy to make-up and maintain.***
- ***Chromate-free, ammonium-free.***
- ***Wide window of operation.***
- ***Easy control procedures.***
- ***Never needs to be dumped.***
- ***No hydrogen peroxide.***
- ***Ideal for most any series of aluminum.***

NON-CHROMATED ALUMINUM DEOXIDIZER/DESMUTTER

DEOXIDIZER NC-620 is a concentrated, easy to use liquid material designed to remove oxide, smut and mill scale from aluminum prior to anodizing, bright dipping, plating, painting, chromating and chemical polishing.

DEOXIDIZER NC-620 is an effective replacement for chromic acid deoxidizers. It offers performance equal to or better than chromic based products, yet operating costs are lower and waste treatment is much easier to deal with.

DEOXIDIZER NC-620 is formulated to deoxidize most all aluminum alloys including 2000 and 6000 series. It operates at room temperature, never needs to be dumped, and in many cases, can be recycled and returned to the process tank. It requires less frequent maintenance additions and will not etch.

DEOXIDIZER NC-620 removes heat treat and weld discolorations from aluminum. It rinses freely and is effective over a wide operating range, while providing a safer working environment.

DEOXIDIZER NC-620 is an easy to use system that does not require the use of hydrogen peroxide or other hazardous agents to provide proper performance. This contributes to plant safety as well as lower long term operating costs.

OPERATING DATA

DEOXIDIZER NC-620	***7-12% by vol.***
Temperature	70-90° F. (21-32° C)
Time	20 sec. to 3 mn.
Agitation	Mild Air.

EQUIPMENT

PVC lined tanks, polyethylene or polypropylene tanks are acceptable. Heaters should be made of Teflon.

NOTES

DEOXIDIZER NC-620 solutions are formulated to be used in place of nitric, nitric-fluoride and hydrofluoric-peroxide acid dips, typically are utilized to remove smut and oxides following etch cleaning and bright dipping operations. ***DEOXIDIZER NC-620*** can, in some cases, be used with nitric acid to improve the performance of the nitric acid dip. Mild air agitation is recommended.

Solutions should be operated near room temperature. Higher temperatures accelerate the rate of reaction and can lead to some attack on the surface of the base metals processed. Low temperatures reduce the action of the solution and are not recommended.

SOLUTION CONTROL

DEOXIDIZER NC-620 offers outstanding life and requires very little maintenance.

Analytical:

1) Pipet a 10 ml sample of the Deox NC 620 solution into a 250ml flask.
2) Add 75-100 mls of D.I. water.
3) Add 5 mls of 3% Sulfosalycylic Acid.
4) Titrate with 0.1M EDTA to a light amber or yellow endpoint.

CALCULATION: mls of 0.1M EDTA X 1.25 = %/volume of ***Deox NC 620***

STORAGE/HANDLING

DEOXIDIZER NC-620 is stable upon standing and has excellent shelf life. Store in dry area in closed containers. It is not combustible. ***DEOXIDIZER NC-620*** solutions require the handling of acidic materials. Avoid contact with the skin and eyes. Wear proper protective clothing. If solution is splashed on skin or eyes, flush immediately with large volumes of water and seek medical assistance as soon as possible.

Material Safety Data Sheets (M.S.D.S.) are readily available on this product. ***It is strongly recommended that all personnel thoroughly read and understand the information contained in both the Technical Data Sheet and the Material Safety Data Sheet before using this product.***

WARRANTY

The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. No warranty or guarantee expressed or implied is made regarding the performance of any products, since the manner of use is beyond our control. No suggestion for product use nor anything contained herein, shall be construed as a recommendation for its use in infringement of any existing patent, and we assume no responsibility or liability for operations which do infringe any such patents. The above includes confidential and proprietary information of ***A BRITE COMPANY*** and is furnished to you for your use solely on products or processes supplied to you by us.

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