Neutral Salt B

Neutral Salt B is a chemically balanced mixture of chlorides designed for a specific range of operating temperatures. All chemicals incorporated into the formulation are technical grade to insure a high purity, high grade, trouble-free mixture. Neutral Salt B solidified salts are easily removed from the heat-treated work and those which require oil quenching.

Neutral Salt B is used as a neutral molten salt bath for a heat transfer medium in the heat treatment of medium or high carbon steels and low alloy steels. It can also be used for reheating carburized steels and annealing. *For short periods of time, Neutral B can be used at 1700ºF. but not for continuous periods. After using at this temperature, it should be lowered to a maximum of 1600ºF. Neutral B is a neutral salt mixture when properly maintained by periodic chemically testing and, if necessary, rectifying, will neither carburize or decarburize the metal surfaces being heat treated. Chemical testing kits and chemical testing procedures are available for maintaining the neutrality of the Neutral B salt bath.

Features & Benefits

Free flowing powder	Easy safe handling for additions to salt pot
High purity	Consistency lot to lot, sharp melting point No smoke

Operating Conditions

Melting point	1200°F
Weight	100 lb/ft^3
Operating range	1300°F – 1700°F

<u>Chemical control requirements</u>
Chemical and chemical compounds should not be introduced into the Neutral B salt bath such as nitrates, cyanides, cleaning compounds and oils. Contaminants not only will change the neutrality of the salt but, in many cases, result in ruining the salt bath, necessitating dumping the bath and starting up a new one.

If, during the heat-treating procedure, there is a large amount of drag out of the salt bath resulting in a large amount of additions of new Neutral B salts, little, if any, rectification of

the salt bath is necessary. Most operations have normal drag out and replenishment. Under these circumstances, the Neutral B salt bath needs to be controlled and rectified.
This rectification is accomplished by additions of our Neutral Salt Rectifier Pellets which react with the impurities which have formed in the Neutral B production salt bath.
Rectification can also be accomplished by bubbling methyl chloride through the molten salt bath. More detailed information is available on rectification of the salt baths upon request.

Equipment required
Equipment for the Neutral B salt bath should be the externally heated or immersed or submerged electrode type.

The electrode type uses ceramic pots. The externally heated types use either mild steel or nickel alloy pots.

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.

Our people. Your problem solvers.

For more information on this process please call us at
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