



## Product Bulletin

Better Chemistry. **Better Business.**

**Neutral Salt HH W/Rectifier**

**Product Code: 2282005**  
**Revised Date: 04/24/2006**

### Neutral Salt HH W/Rectifier

**Melting Point: 1600°F.**

**Weight: 165 lbs./cu.ft.**

**Operating Range: 1700-2400°F.**

#### **DESCRIPTION:**

Neutral Salt HH with Rectifier is a chemically balanced mixture of chlorides formulated for a specific range of operating temperatures. All chemicals incorporated into the formulation are technical grade to insure high purity, high grade, trouble-free mixture.

Neutral Salt HH with Rectifier is used as a molten salt bath for a neutral heat transfer medium within its operating range of temperatures (1700-2400°F.) for the heat treatment of alloy steels requiring temperatures within the temperature range of Neutral Salt HH with Rectifier. It is also used for the heat treatment of high speed steels requiring temperatures of 2100°F. Neutral Salt HH with Rectifier can be used up to 2400°F., but only for intermittent operation. For constant requirements, between 2100 to 2400°F., Neutral Salt HHS should be used.

#### **CHEMICAL CONTROL REQUIRED**

Chemicals and chemical compounds should not be introduced into the Neutral Salt HH with Rectifier salt bath such as nitrates, cyanides, oils, cleaning compounds, or other types of contaminants. These contaminants will not only change the neutrality of the salt bath, but ruin the Neutral HH with Rectifier salt bath, necessitating dumping the bath and making up a new one.

The Neutral Salt HH with Rectifier salt bath is very stable but the neutrality must be maintained by bubbling methyl chloride through the molten bath to control the alkalinity. Graphite rods must also be used to remove metallic oxides. Neutral Salt HH with Rectifier can be used if methyl chloride is not available. However, graphite rods should be used to remove the metallic oxides. It is also advisable to daily desludge the Neutral Salt HH with Rectifier salt bath to aid in keeping the neutrality of the salt bath. There is a Chemical Control Bulletin available upon request.



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### **CLEANING REQUIREMENTS**

Hot water is recommended for the removal of solidified Neutral Salt HH with Rectifier from the heat treated work. After the salts have been removed in hot water, the remaining oil can be removed in a hot alkali cleaner.

### **EQUIPMENT REQUIREMENTS**

Electric immersed or submerged electrode type furnaces with ceramic pots are the best type of pot furnace for the Neutral Salt HH with Rectifier.

### **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.