

Neutral Salt HHS (SST 170)

Neutral Salt HHS (SST 170) 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 HHS (SST 170) is used as a molten salt bath for a neutral heat transfer medium within its operating range of temperatures (1900 - 2400°F.) for the heat treatment of alloy steels requiring temperatures within the temperature range of Neutral Salt HHS (SST 170). It is also used for the heat treatment of high-speed steels requiring temperatures of 2100°F. Neutral Salt HHS (SST 170) can be used up to 2400°F.

Features & Benefits

Free flowing powder	Easy safe handling for additions to salt pot
High purity	Consistency lot to lot, sharp melting point

Physical Data

Melting point	1750°F
Weight	165 lb /ft ³
Operating range	1900°F – 2400°F

Operating Conditions

Chemicals and chemical compounds should not be introduced into the Neutral HH 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 HHS (SST 170) salt bath, necessitating dumping the bath and making up a new one.

The Neutral HHS (SST 170) molten 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 HH 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 de-sludge the Neutral HHS (SST 170) salt bath to aid in keeping the neutrality of the salt bath. There is a Chemical Control Bulletin available upon request.

Cleaning Requirements

Hot water is recommended for the removal of solidified Neutral Salt HHS (SST 170) 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

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

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