

Neutral Salt C

Neutral Salt C is essentially a homogeneous mechanical chloride salt mixture formulated to have an operating range which allows for tempering and hardening operations. It is very useful for temperatures between 1100°F. and 1300°F. for tempering and stress relieving and between 1400°F and 1600°F for hardening operations. For high speed hardening, it can be used as a quenching and tempering bath. Neutral Salt C can also be used for solution heat treatment of non-ferrous metals.

Features & Benefits

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

Physical Data

Melting point	1050°F
Weight	159 lb/ft ³
Operating range	1100°F – 1650°F

Operating Conditions

Chemicals and chemical compounds should not be introduced into the Neutral C salt bath such as nitrates, cyanides, cleaning compounds and oils. Contaminants not only will change the neutrality but, in many cases, result in ruining the salt bath, necessitating dumping the bath and making up a new one. Rectification of the Neutral C salt bath is not usually necessary when operated at temperatures lower than 1400°F. If the Neutral C salt bath is operated above 1400°F. and rectification is required, it can be done by either bubbling methyl chloride through the molten salt bath or adding our Rectifier for Neutral C. By using a carbon cover, such as our Graphite #2, it will eliminate or reduce the necessity of rectification. Additional information is available on rectification of salt baths upon request.

Cleaning Requirements

Hot or boiling water is recommended for the removal of solidified Neutral C salts, especially after oil quenching. After the solidified salts have been removed in hot water, the remaining oil can be removed in a hot alkaline cleaner. Neutral Salt C contains some calcium chloride which is hygroscopic-therefore, after heat treatment and quenching, the parts should be cleaned as soon as possible.

Equipment

Equipment for Neutral C Salt bath can be externally heated or immersed or submerged electrode type. The electrode type use ceramic pots. The externally heated use either mild or alloy steel pots.

Our People. Your Problem Solvers.

For more information on this process,

please call us at 203.756.5521 or email: techservice@hubbardhall.com

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution,

as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem¹³⁶**.