Quick Cure 300

Curing Salts For Extruded Rubber Products
Tempering, Drawing, Blueing And Heat Treating

I. Curing Salts for Extruded Rubber Products

Melting Point: 310°F

Temperature Range*: 380-1100°F.

*Stable at temperatures up to 1100°F.

DESCRIPTION

Quick Cure 300 is a high purity, eutectic mixture of nitrate and nitrite salts, formulated specifically for curing extruded rubber profiles at the lowest possible temperature ranges. It is used as a molten liquid salt bath and is especially effective for curing silicone profiles and sponge rubber in the 380-475°F. range and can also be used to cure conventional rubber profiles at higher temperatures (over 400°F). Because it is a high purity mixture with a low, sharp melting point it is very fluid at any operating temperature. There are a number of important reasons for curing rubber with Quick Cure 300:

It is chemically stable over its wide operating temperature range.

The free flowing characteristics of the salt assure virtually no lumping or caking problems.

It can be used with wide operating temperature variations - 380-1100°F.

The salt bath, when heated, maintains its viscosity at operating temperatures.

Rubber profiles, when immersed in the Quick Cure 300 salt bath, will retain their shape, without sagging or distortion, with uniform surface cure, minimizing scrap.

All chemicals used in Quick Cure 300 are water-soluble and do not form any insolubles. Therefore, the solidified salt is easily removed from the surface in a hot water spray rinsing station at the end of the trough just after emerging from the salt trough.
Quick Cure 300

Chemicals incorporated in the formulation are domestic, high purity, high-grade, trouble-free mixtures, assuring continuous high throughput without excessive amounts of scum, foam or sludge buildup and insuring a clear salt solution.

APPLICATIONS
Used as a continuous curing heat transfer liquid salt bath for extruded rubber profiles, hoses, tubing, cable covering, in not only conventional rubber but also for various silicone and sponge rubber formulations.

II. Tempering, Drawing, Blueing and Heat Treating

Melting Point: 325°F.

Weight: 119 pounds/cu.ft.

Operating Range: 380°F - 1100°F.

DESCRIPTION

Quick Cure 300 is a mechanical mixture of nitrate and nitrite salts formulated for a specific range of operating temperatures. Quick Cure 300 costs a little less than Quick Cure 275 but is not a eutectic mixture and does not have a sharp melting point.

USES
1. Drawing or tempering hardened steels.
3. Blueing steels (600-700°F.)

DO NOT use for martempering as Quick Cure 300 is not as fluid as Quick Cure 275 and will not quench the parts fast enough for a martempering operation.

EQUIPMENT REQUIRED

Standard salt bath pot furnaces are available which are heated either electrically, or by gas or oil. Cast, pressed steel, welded steel or ceramic pots can be used. Ceramic pots are used only with immersion electric heaters.
CONTROL REQUIREMENTS

Quick Cure salt baths are chemically stable and it is necessary only to replace the dragout with new Quick Cure. Removal of organic materials from the profile surface prior to salt curing will allow easier rinsing of the salt at the end of the curing operation and minimize dragout. When the salt bath is used for tempering steels or heat treating beryllium alloys, replenishment of dragout is all that is necessary.

Do not allow sodium cyanide or carburizing salts to be introduced into the molten Quick Cure 300 salt bath as a violent reaction would occur or an explosion. Also, do not get any organic materials into the salt bath.

CAUTION

May cause skin irritation. Do not get in eyes. In case of contact with skin or eyes, flush freely with water. For eyes, get medical attention.

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.