



Better Chemistry. **Better Business.**

Quick Temper 300

Product Code: 2281019
Revised Date: 12.7.2016

Quick Temper 300
Molten Heat Transfer or Quenching Bath Salt

DESCRIPTION

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

FEATURES

- **Quick Temper 300** is chemically stable over its wide operating range of temperatures
- It is only necessary to replace that which is lost through drag-out.
- **Quick Temper 300** operates at a wide range of temperatures – 320 to 1000°F
- The salt bath, when heated, maintains its viscosity over temperature range with very little change.
- The parts, when immersed in the **Quick Temper 300** salt bath, will attain the temperature of the bath faster than in oil.
- All chemicals used in **Quick Temper 300** are water-soluble and do not form insoluble ones. Therefore, the solidified salt is easily removed from the work in hot water.
- Chemicals incorporated into the formulation are technical grade to insure a high purity, high grade, trouble-free mixture.

TYPICAL APPLICATIONS

- Drawing or tempering hardened steels
- Heat treatment of beryllium alloys
- Blueing steels (600-700°F)

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

PHYSICAL DATA

Melting Point.....325°F
 Weight 119 pounds per cubic foot
 Operating Range..... 380°F - 1100°F





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CONTROL REQUIREMENTS

It is not usually necessary to control the **Quick Temper 300** salt bath chemically, as the bath is chemically stable and it is necessary only to replace the drag-out with new **Quick Temper 300**. When the salt bath is used for tempering steels or heat-treating beryllium alloys, replenishment of drag-out is all that is necessary.

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

EQUIPMENT

Standard salt bath pot furnaces are available which are heated either electronically, 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.

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.

