

Quick Temper™ 280-P (SST 120)

Quick Temper 280-P (SST 120) is a mechanical mixture of nitrite and nitrate salts formulated for a specific range of operating temperatures. Quick Temper 280-P (SST 120) is not a eutectic mixture and does not have a sharp melting point.

Quick Temper 280-P (SST 120) contains a pink for identification where such is required.

Features & Benefits

High purity	Consistent melting point/Lower consumption
Low melting point	Reduced energy cost
Package flexibility	Multiple handling options
Free flowing powder	Safer addition

Typical Applications

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

Physical Data

Melting point	275°F
Temperature range	315°F – 650°F
Density	116 lb/ft ³
Specific heat	0.37 calories / (gram °C) 168 calories / (pound °C) 1.5 BRU / (pound °C) 0.83 BTU / (pound °F)

Operating Conditions

It is not usually necessary to control the Quick Temper 280-P (SST 120) salt bath chemically, as the bath is chemically stable, and it is necessary only to replace the drag-out with new Quick Temper 280-P (SST 120). When the salt bath is used for tempering steels or heat-treating beryllium alloys, replenishment of drag-out is all that is necessary.



Cleaning
the Hard to Clean



Finishing
the Hard to Finish



Treating
the Hard to Treat

Do not allow sodium cyanide or carburizing salts to be introduced into the molten Quick Temper 280-P (SST 120) salt bath as a violent reaction or an explosion would occur. 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.

Our people. Your problem solvers.

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