# 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)<br>168 calories / (pound °C)<br>1.5 BRU / (pound °C)<br>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.

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**: HUBBARD-HALL INC. IS NOT RESPONSIBLE FOR THE MISUSE, MISAPPLICATION, OR MISHANDLING OF THIS PRODUCT. SEE THE TERMS AND CONDITIONS OF SALE ON OUR WEBSITE FOR ADDITIONAL TERMS AND CONDITIONS CONCERNING OUR PRODUCTS, INCLUDING BUT NOT LIMITED TO, LIMITATIONS AND DISCLAIMERS OF WARRANTIES AND LIABILITIES.

---

## 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-Chem**[136]