Quick Temper™ AP Blend

Quick Temper AP Blend is a mechanical mixture of nitrite and nitrate salts formulated for a specific range of operating temperatures. Quick Temper AP Blend is not a eutectic mixture and does not have a sharp melting point.

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 AP Blend salt bath chemically, as the bath is chemically stable, and it is necessary only to replace the drag-out with new Quick Temper AP Blend. 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 AP Blend 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.

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Our People. Your Problem Solvers.

For more information on this process,
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