Quick Temper™ 300 P

Quick Temper 300 P is a mixture of nitrate and nitrite salts formulated for a specific range of operating temperatures. Quick Temper 300 P costs a little less than Quick Temper 275 P but is not a eutectic mixture and does not have a sharp melting point. Quick Temper 300 P contains a pink dye to meet the requirement for a dye containing tempering salt.

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

Physical Data

Melting point	325°F
Weight	119 pounds per cubic foot
Operating range	380°F – 1100°F

Typical Applications

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

Operating Conditions

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

Control requirements

It is not usually necessary to control the Quick Temper 300 P salt bath chemically, as the bath is chemically stable, and it is necessary only to replace the drag-out with new Quick Temper 300 P. 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 P salt bath as a violent reaction would occupy 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.

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Our People. Your Problem Solvers.

For more information on this process,
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