

Nickel-Phosphorus NiP

Nickel based master alloys



Application

Nickel-Phosphorus is mainly used in the production of nickel based brazing alloys to obtain the required phosphorus content.

Product description

NiP16 is available in the form of broken waffle ingots (irregular pieces) packed in pallet box or steel drums on pallets. NiP20 is in the form of waffle ingots of approximately 14-18 kg unit weight stacked on wooden pallets. Each pallet carries a label showing the batch number and the nominal alloy composition.

Physical properties

The NiP master alloy has a melting point between 1100 and 1175 °C depending on the actual phosphorus content. Its density is approximately 7.3 g/cm³.



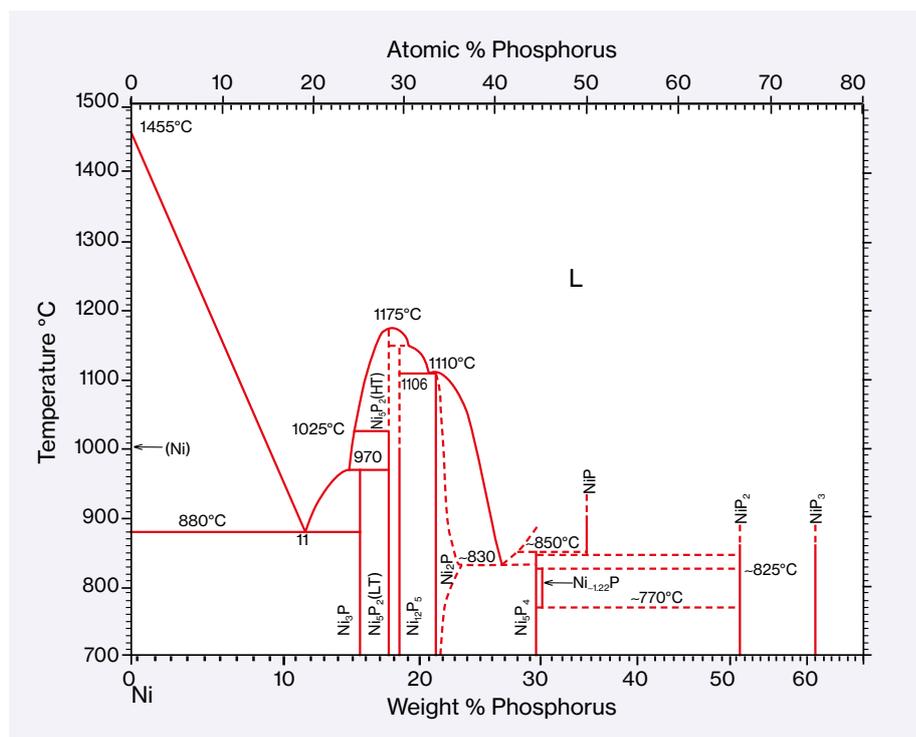
Recommended addition practice

1. Remove all dross from the bath surface
2. Add the master alloy to the bath at normal operating temperature
3. Stir the bath well to ensure complete and homogeneous dissolution

Storage

The alloy must be stored in a dry area to prevent excessive oxidation.

Material Safety Data Sheet available.



COMPOSITION (WEIGHT%)

| Master alloy | P | Cu max. | Fe max. | Mn max. | Co max. | Al max. | Si max. | C max. | S max. |
|--------------|-----------|---------|---------|---------|---------|---------|---------|--------|--------|
| NiP16 | 15.0-18.0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.05 | 0.15 | 0.1 | 0.01 |
| NiP20 | 18.0-21.0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.05 | 0.15 | 0.1 | 0.01 |

Other composition and packaging available upon request.

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