

VDM® Alloy 120 (N08120)

Description

VDM® Alloy 120 is a nickel-chromium-alloy used in industrial heating application. It is a solid solution strengthened alloy with additions of carbon and nitrogen. VDM® Alloy 120 has good resistance to carburization and sulfidation and is providing high mechanical strength at temperatures up to 1,100 °C (2,012 °F).

Designations and standards

VDM Designation	Nicrofer 3725 Nb
UNS	N08120

Characteristics

VDM® Alloy 120 (N08120) is characterized by:

- good resistance in carburizing and sulfiding atmospheres
- high creep resistance
- operating temperatures up to 1,100°C (2,012 °F)
- VDM Alloy 120 has a higher strength compared to Alloy 330 or Alloy 800 H (1,100°C/ 2,012 °F)

Applications

VDM® Alloy 120 has a wide range of applications in areas of elevated temperatures in furnace construction like industrial annealing furnaces and waste incineration plants. Further it is used in the chemical industry, in environmental protection plants, in the automotive industry and in power plants. Typical applications are furnace muffles, heat treatment baskets, wire cloth as well as furnace conveyor belts, superheaters for tubes and recuperators.

Available product forms

VDM® Alloy 120 (N08120) is offered in the product form sheet metal in the following dimensions:

- Cold rolled: 1-7 mm (0.04-0.28 in) Thickness, ≤ 2.500 (39.37-98.43 in) Width and ≤ 12.500 (492.13 in) Length
- Hot rolled*: 3-80 mm (0.12-3.15) Thickness, ≤ 2.500 (39.37-98.43 in) Width and ≤ 12.500 (492.13 in) Length

* 2 mm (0.08 in) thickness on request

Please contact us for other dimensions.

Legal notice

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Publisher

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Disclaimer

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