

AUFHAUSER Ni-71 is a nickel-chromium-silicon brazing alloy. It is an oxidation-resistant alloy for high temperature, high strength applications up to 1190°C.

Nominal Composition, wt.%

Cr	Si	Ni
19	10	balance

Controlled Impurities, wt.%, max:

Co	Al	B	P	C	Ti	Zr	O ₂	N ₂	S	Se
0.10	0.05	0.03	0.02	0.06	0.05	0.05	0.03	0.03	0.02	0.005

Physical Properties

Solidus	1975°F (1080°C)
Liquidus	2075°F (1135°C)
Recommended brazing range	2100 - 2200°F (1150 - 1205°C)
Color	Iron gray

Brazing Characteristics

With its high silicon content, **Aufhauser Ni-71** is a good choice for narrow, deep joints or for honeycomb components. When wetting to base metals which contain higher aluminum or titanium content in an inert atmosphere, nickel plating of the base metal is recommended. Dry, reducing atmospheres or inert atmospheres are recommended.

Specifications

AWS A5.8 BNi-5
AMS 4782

Available Forms

Powder, paste, sintered wire (rope), brazing tape