

Resistant Alloys Controlled Expansion Alloys



1. Chemical composition and brand names

Those are iron and nickel based alloys.

Alloys in question are:

FeNi 70 – Invar®

2. Properties

Those alloys are characterised by their high temperature coefficient which confers them a very important variation of resistance.

They are also characterized by their dilatation at some temperatures.

Their resistivity is relatively high (from 0.20 to 0.83 ohm mm²/m).

The alloy Invar® is used for its property to have a null linear expansion coefficient.

3. Typical Applications

FeNi alloys often intervene in the applications where an autoregulation of the power (thermostats) is necessary, but also in the manufacture of leading-in for lamps (capping with the glass).

April 2012 - The data enclosed in this document are only given as indicative values and correspond to our standard products. Different specific requirements are subject to discussion and formal approval by Aperam Alloys Rescal. For further information or special request, please contact us.