

MA23

[Ni-22Cr-14W-2Mo (mass%)]

MA23 is a Ni-Cr-Mo-W alloy that has good oxidation resistance up to 1,150°C, good high temperature resistance, excellent stability after long term heating, and has superior breaking elongation rate than any other Nickel based alloy after aging treatment. Furthermore, another feature is that this alloy exhibits good nitric resistance.

Application

MA23 is used for applications such as muffles and radiant tubes for heat furnaces, gas turbine combustion tubes and heat exchangers and ducts for chemical plants, and various structural material in high temperature environments.



Radiant Tube

Physical Properties

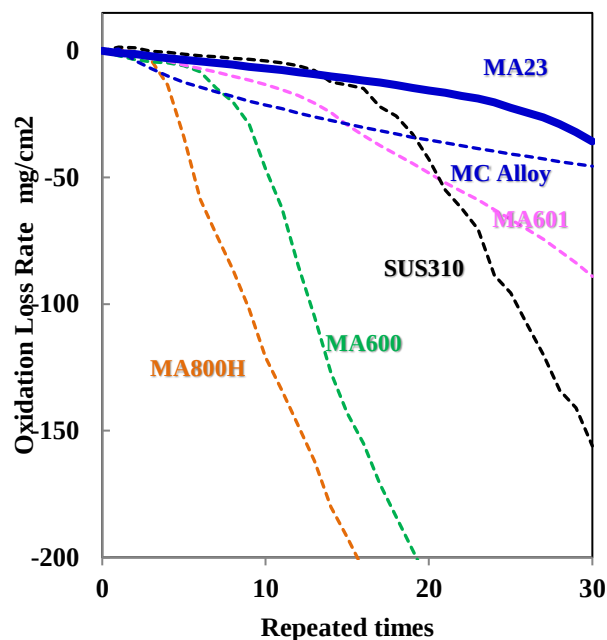
Density	8.97	g/cm ³
Melting Point	1300~1370	°C
Specific Heat	397	J/kg · K
Thermal Conductivity	8.9	W/m · K
Electric Resistance	125	μΩcm
Elastic Modulus	211	GPa

※ Reference; ASM International「Alloy DIGEST」
Finding Code: Ni-320 Nickel Alloy

- Data in this brochure are typical values and is not a guaranteed value.
Physical testing is required for selection of material for individual applications.

High Temperature Oxidation Rate

Repeated test after heating for 24 hours at 1,150°C, cooled to room temperature and measure the weight loss



Proterial, Ltd. Okegawa Works

1230 Kamihideya, Okegawa-shi, Saitama, 363-8510, Japan

◇URL : <https://www.proterial.com/e/>

