High performance

IMPHY 617

IIMPHY 617 is a Nickel Chromium Cobalt Molybdenum alloy which allows:

- Good corrosion resistance.
- Exceptional combination of high temperature strength and oxidation resistance..

Chemical composition

C	Mn	Fe	P	S	Si	Cu	Ni	Co	Cr	Mo	Al	Ti
0.05	1	3	< 0.03	> 0.015	1	0.5	Bal	10	20	8	0.8	0.60
0.15								15	24	10	1.5	

International standards

AWS A5.14 – ERNiCrCoMo-1 - UNS N06617

Typical applications

IMPHY 617 is used as ducting combustion cans, and transition liners in both aircraft and land-based gas turbines.
This alloy is used for catalyst-grid supports in the production of nitric acid, for heat-treating baskets.

Mechanical properties

		Tensile strength (MPa)	Elongation %
Hot rolled and solution annealed	Delivery condition at 20°C	900	40 - 60

Welding

IMPHY IMPHY 617 is used for welding of Alloy 617 and for dissimilar welding of high temperature alloys.

The properties of the weld metal are high temperature strength, oxidation resistance and metallurgical stability.

Available Forms

IMPHY 617 is delivered in wire.

www.aperam.com
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YouTube

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