Technical Data Sheet
UGIALLOY® 617

Chemical composition (%)

C	Si	Mn	Ni	Cr	Mo	Cu	Fe	Co	Al	Ti
≤ 0.01	≤ 0.5	≤ 0.5	≥ 44.0	21.0 – 24.0	8.5 – 9.5	≤ 0.5	≤ 1.0	11.0 – 13.0	1.0 – 1.5	≤ 0.6

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Classification
Nickel Chromium Cobalt grade

Designation

Material No.

Europe – EN ISO 18274	USA – AWS A5.14	Europe – WNr.
Ni 6617 – NiCr22Co12Mo9	ERNiCrCoMo-1	2.4627

Corrosion resistance
The composition of UGIALLOY® 617 includes substantial amounts of nickel, chromium and aluminum for a high degree of resistance to oxidation and carbonization at high temperature while alloy UGIALLOY® 617 exhibits excellent resistance to aqueous corrosion by many media.

Welding

» UGIALLOY® 617 has excellent weldability
» UGIALLOY® 617 is used for TIG and for MIG

Available products

Process	Shape	Diameter Range	Packaging	Weight
TIG	Rods	1.0 – 4.0 mm	Cardboard tubes	5 kg
MIG	Wire	0.8 – 1.6 mm	Metallic spools – BS 300	15 – 18 kg
		0.8 – 1.2 mm	Plastic spools – D 200	5 kg
			Plastic spools – D 300	15 kg
		1.0 – 1.6 mm	Plastic spools – D 350	25 – 27 kg
		0.8 – 1.2 mm	Pay off pack - Drums	250 – 500 kg
SAW	Wire	1.6 – 3.2 mm	Rims K415 / 300 / 94	20 – 25 kg
			Rims K435 / 300 / 70	

Contact us for dimensions

Applications
UGIALLOY® 617 is an attractive material in such components as ducting, combustion cans, transition liners in both aircraft and land-based gas turbines.

Because of its resistance to high temperature corrosion, the alloy is used for catalyst-grid supports in the production of nitric acid, for heat-treating baskets. It also offers attractive properties for components of power-generating plants, both fossil-fueled and nuclear.

Swiss Steel Group

Production sites: Ugitech SA
www.swisssteel-group.com