

617 / 2.4663

2.4663 is a nickel-chromium-cobalt-molybdenum alloy with a good weldability, high strength and excellent creep properties. Alloy 617 is also resistant to high-temperature corrosion, oxidation and carburization.

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Material Data Sheet

Material Designation	2.4663
Alloy	Alloy 617
EN Material Symbol	NiCr23Co12Mo
UNS	N 06617
Trademark	Nicrofer® 5520 Co
VdTÜV Data Sheet	485
Norm	DIN EN 17744

Main fields of application of alloy 617

Alloy 617 is applied at high temperatures. Alloy 617 is used in air heaters, furnace components, beam pipes or high-temperature heat exchangers as well as in gas turbines and combustion chambers.

Chemical composition of alloy 617

C	Si	Mn	P	S	Cr	Mo
≤ %	≤ %	≤ %	≤ %	≤ %	%	%
0.05-0.1	0.7	0.7	0.012	0.008	20.0-23.0	8.0-10.0

Ni	Al	Co	Cu	Fe	Ti	B
%	%	%	≤ %	≤ %	%	%
rest	0.6-1.5	10.0-13.0	0.5	2	0.02-0.5	0.006

Characteristics of alloy 617

Temperature Range	High-Temperature Range
Density	8.4 g/cm ³
Melting Range	1330 – 1380°C
ISO-V notch impact toughness	≤ 100 J/cm ² (across)
ISO V-Notched impact strength	≤ 150 J/cm ² (lengthwise)

Filler metal (for welding with alloy 617)

Welding Rods:

FM 617-2.4627

Wire Electrodes:

AWS A5.14: ERNiCrCoMo-1
DIN EN ISO 18274: S Ni 6617

Covered Rod Electrodes:

2.4628
UNS W86117
AWS A5.11: ENiCrCoMo-1
DIN EN ISO 14172: E Ni 6617

Delivery program

Sheets or Plates: 12,5 mm

With short delivery time:

plates or sheets, tubes, flanges, forged or die-cut rings and round blanks, elbows, T-fittings, reductions, screws, nuts or washers according to your request.

According to your individual wishes, we are able to cut our material with our plasma- or water jet cutter.

Our material is stocked in superformats of 2000x6000mm. Cut to size on request.

Material Outlet by Hempel

ECONOXX.com offers buyers a new and uncomplicated procurement channel, which also includes small quantities and materials in special alloys at favourable conditions.

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Weight Calculator