

C276 / 2.4819

2.4819 has a very good resistance to pitting, crevice corrosion and stress corrosion cracking

Worth mentioning for C276 is also the exceptional resistance to corrosive media under oxidizing and reducing conditions

Gehe zu



Material Data Sheet

Material Designation	2.4819
Alloy	Alloy C276
EN Material Symbol	NiMo16Cr15W
UNS	N 10276
Trademark	Nicrofer®5716hMoW
VdTUV Data Sheet	400
DIN EN	DIN EN 17744

Main fields of application of alloy C276

Alloy C276 is often used in the chemical and petrochemical industries. The material is preferably used in cases where hot contaminated mineral acids, solutions and organic acids (such as acetic and formic acid) and seawater occur. Other areas of application include:

- Sulfuric acid cooler
- pulp and paper industry, for example for pulping and bleaching vessel
- Equipment and components for Sour Gas
- Washer and particulate retrieval heater and fans for continuous wet combustion - flue gas and desulphurisation
- Reactors for the production of acetic acid
- Production and processing technology contaminated phosphoric acid

Chemical composition of alloy C276

C	Si	Mn	P	S	Cr
%	≤ %	≤ %	≤ %	≤ %	%
0.01	0.08	1.0	0.015	0.01	15.0-16.5

Mo	Ni	Co	Fe	W	V
%	%	≤ %	≤ %	%	%
15.0-17.0	Rest	2.5	4.0-7.0	3.0-4.5	0.1-0.3

Characteristics of alloy C276

Temperature Range	Material for wet corrosion
Density	8.9 g/cm ³
Melting Range	1325 – 1370°C
Elongation at break of Alloy 59 at room temperature:	30 %
≤ 5mm	25 %
≥ 5 - ≤ 25 mm	
ISO-V notch impact toughness at -59°C	≥ 120 J/cm ² at room temperature
	≥ 90 J/cm ²

Filler metal (for welding with alloy C276)

Material:

2.4607

Covered electrode:

Material

2.4609

2.4819

MIG/TIG

Delivery program

Sheets / Plates mm

2 - 20

Bars / Billets dia. mm

6 - 76/115sq

Precision strip mm

0.2 - 0.5

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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