TECHNICAL DATASHEET

Titanium Grade 4

A commercially pure grade, Titanium Grade 4 is a material of choice for application where ease of formability is required.

Titanium Grade 4, also known as titanium CP1, is the softest and most ductile of all the titanium grades. It has excellent corrosion resistance and high impact toughness.

PRODUCT FORMS

PRODUCT FORM	SIZE RANGE FROM	SIZE RANGE TO
Titanium Grade 4 sheet & plate	0.4064 mm	1.6002 mm
Titanium Grade 4 round bar	25.4 mm	107.95 mm

Can't find the size you need? ***Please contact us at*** ***onlinesales@neonickel.com***

CHEMICAL ANALYSIS

%	C	N	O	H	FE	TI
Min	0	0	0	0	0	Balance
Max	0.08	0.05	0.40	0.015	0.5	Balance

APPLICATIONS

- Airframe components
- Cryogenic vessels
- Heat exchangers
- CPI equipment
- Condenser tubing

TECHNICAL DATASHEET

ABOUT TITANIUM GRADE 4

Also known as titanium CP1, Titanium Grade 4 is most commonly applied in the aerospace and chemical processing markets. It possesses outstanding corrosion resistance and ductility. Due to its excellent resistance to corrosion fatigue in seawater, Titanium Grade 4 is commonly used for marine components. This alloy is also very resistant to many chemical environments including oxidising media, alkaline media, organic compounds and acids, aqueous salt solutions, and wet or dry hot gases. It also has sufficient corrosion resistance in liquid metals, nitric acid, mildly reducing acids, and wet chlorine or bromine gas. Titanium Grade 4 has the highest strength of the CP grades, making it competitive with stainless steels for many corrosion resistant applications. Whilst the strength of Titanium Grade 4 is on a par with annealed stainless steels, it offers superior corrosion resistance and significantly lighter weight due to its low density. Titanium Grade 4 is not subject to grain boundary embrittlement or sensitization at elevated temperatures.

SPECIFICATIONS

UNS Number:	UNS R50700
W.Nr.Number:	3.7065
Standards:	ASTM B265, 348, 381