

## NICROTIG 718

TIG Rods [GTAW]

Nickel alloys

<b>CLASSIFICATION:</b> EN ISO 18274-A : S Ni 7718 (NiCr19Fe19Nb5Mo3) AWS A-5.14 : ER NiFeCr-2 W.Nr. : 2.4667	<b>APPROVALS:</b>	<b>APPLICATION:</b> Power generation industry Constructions & Engineering Petrochemical and chemical industry
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- Welding rod for high strength nickel alloys 718.
- Special material with precipitation hardening weld metal.

### Application

Recommended for a wide range of applications such as parts of liquid fueled rockets, housings and rings and other components of aircraft engines and land gas turbines as well as cryogenic tanks. It can also be used for welding or hardfacing in the petrochemical and gas industries.

### Typical chemical composition %

<b>C</b>	<b>Si</b>	<b>Mn</b>	<b>Cr</b>	<b>Ni</b>	<b>Mo</b>	<b>Nb</b>	<b>Fe</b>	<b>Al</b>	<b>Ti</b>
0,07	0,15	0,10	17,5	52,0	3,0	Nb + Ta 5,0	rest	0,4	0,90

### Typical mechanical properties

<b>Yield strength Re [N/mm<sup>2</sup>]</b>	>580
<b>Tensile strength Rm [N/mm<sup>2</sup>]</b>	>860
<b>Elongation A5 [%]</b>	>28
<b>Shielding gases acc. to EN ISO 14175</b>	l1 - Ar /

### Welding parameters and packing

<b>∅</b>	<b>Welding current [A]</b>	<b>Weight of packet [kg]</b>
2,4	120 - 175	4,54

### METALWELD-FIPROM POLSKA spółka z o.o.

ul. Mikołajczyka 57, 41-200 Sosnowiec

+48 (32) 297 75 50 - 51

+48 (32) 297 75 88

export@metalweld.pl