TIG 21/33MN

Classification

ISO 14343-A : W Z 21 33 Mn Nb Material n° ~1.4850

Description & Applications

Solid rod for TIG welding heat resistant alloy type Alloy 800. Good resistance to thermal fatigue, thermal shock, corrosion and ageing embrittlement at service temperature up to 1000°C. Compare to a nickel base these alloy have sulphidation resistance.

Main applications: Petro-chemistry, furnace and nuclear industries and heat treatment trays.

Base materials

EN	UNS	Proprieratary Alloys
1.4850	N08800	Specials Metals : Incoloy 800/800HT
1.4859	N08810	VDM : Nicrofer 3220/3220H
1.4876	N08811	Sandvik : Sanicro 30, 31HT

Typical Chemical Composition (%)

C	Si	Mn	Cr	Ni	Mo	Al	Ti	Nb	Fe
0.15	0.20	4.7	21.5	32.5	0.3	0.15	2.8	1.2	Rem.

All Weld Metal Mechanical Properties

$R_{p0.2}$ (MPa)	R_m (MPa)	A_5 (%)
400	600	25

Welding Current & Instructions

Welding mode	Shielding Gas
TIG = -	Ar : 6-12 l/min Back shielding : Argon / Nitrogen : 3-6 l/min

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