

# **TIG 11/3M**

Old reference: TIG Z12CNDV12

## Classification

ISO 14343-A : W Z 12 3 MoV AIR 9117 : Z12CNDV12

## **Description & Applications**

Solid rod for GTAW and repairing of steels with similar chemical composition like Z12CNDV12.

Main applications: Repairing of turbine blades.

Typical Chemical Composition (%)											
	С	Si	Mn	Cr	Ni	Мо	Cu	V	Р	S	N
Min	0.08		0.50	11.00	2.00	1.50	-	0.25			0.020
Max	0.15	0.35	0.90	12.50	3.00	2.00	-	0.40	0.035	0.025	0.040
Туре	0.12	0.30	0.70	11.8	2.7	1.7	0.10	0.30	0.020	0.005	0.030

### All Weld Metal Mechanical Properties\*

	R <sub>p0.2</sub> ( MPa )	$R_{m}$ (MPa)	A <sub>5</sub> (%)	Hardness (HB)
Min	780	930	14	286
Max		1130		331
Type	840	1020	19.5	295

<sup>\*</sup> After PWHT at 1050°C/0h30/Air + 650°C/1h/Air

## **Welding Current & Instructions**

Welding mode	Shielding Gas
TIG = -	ISO 14175 : I1 (Ar) 6-12 l/min Back shielding: I1 (Ar) / N1 (Nitrogen) : 3-6 l/min

FT En-TN39-200406

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