



DATA SHEET
DS 122
Rev. 6 dd 15/05/2015
INETIG B2 L

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CLASSIFICATION**APPROVALS**

AWS SPECIFICATIONS	EN SPECIFICATIONS
AWS A 5.28: ER70S-B2L	EN ISO 21952-B: W 52 I1 1CML
AWS A 5.28M: ER49S-B2L	
ASME SFA 5.28: ER70S-B2L	
ASME SFA 5.28M: ER49S-B2L	

ALLOY TYPE

1.25Cr-0.5Mo content to be used for the welding of creep resistant steel.

APPLICATIONS

Low alloy copper-coated tig rod with 1.25% Cr and 0.5% Mo content, with low carbon concentration (less than 0.05%), to be used for the welding of creep resistant steel. Chemical composition of rod conforming to AWS specification. It is used in chemical industry and in the ammonia synthesis process, for heat exchangers, boilers, piping and pressure vessels for temperature service up to about 550°C. It will also find applications in the petro-chemical industries, suitable for facing on casting and for casting repairs.

MATERIALS TO BE WELDED

ASTM		EN		Others
A387 Gr 11&12	A200 T11	10028-2 13CrMo 4-5	(BS 1501 Gr 620 & 621)	
A182 F11 & F12	A213 T11 & T12	10083-1 25CrMo4	(BS 1502 Gr 620)	
A217 WC6 & WC11	A335 P11 & P12	10222-2 14CrMo 4-5	(BS 1503 Gr 620 & 621)	
A234 WP11 & WP12		(DIN 17210 16MnCr5)	(BS 1504 Gr 621)	
A199 T11		(DIN 13CrMo 4-4)	(BS 3100 Gr B2)	
		(DIN 16CrMo4-4)	(BS 3604 Gr 620/440)	
		(DIN 11CrMo 5-5)	(BS 3059 Gr 620/460)	

WELDING GUIDELINES

Preheat and interpass temperature 150°C. PWHT at 620°C for an hour.

TECHNICAL INFORMATION

Gas: Argon 100% (EN ISO 14175)
Welding positions: all positions

**WELDING PARAMETERS**

Current	DC - Straight polarity
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PACKAGING DATA

Diameter (mm)	1.2	1.6	2.0	2.4	3.2	4.0
Length (mm)	1000	1000	1000	1000	1000	1000
Carton	5/25 Kg	5/25 Kg	5/25 Kg	5/25 Kg	5/25 Kg	5/25 Kg

* tolerances according to EN ISO 544 specification.

All information in this data sheet is subject to change without notice.



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TYPICAL CHEMICAL COMPOSITION OF WIRE

C %	Mn %	Si %	S %	P %	Cr %	Ni %	Mo %	Cu %	
0.03	0.60	0.60	0.010	0.010	1.30	-	0.50	0.15	

TYPICAL MECHANICAL PROPERTIES

GAS		Yield strength	Tensile strength	Elongation on	Impact energy (Charpy V)				
		Rs	Rm	A 5d	+ 20°C	0°C	-20°C	-40°C	-60°C
		(MPa)	(MPa)	%	(Joule)	(Joule)	(Joule)	(Joule)	(Joule)
I1	after PWHT	450	560	23	250	-	-	-	-

PRODUCTS AVAILABLE

Process	Product	Classification AWS	Classification EN
MIG/MAG Solid wire	INEFIL B2	AWS A 5.28: ER80S-B2	EN 21952-B: G 1CM
	INEFIL CROMO 1	AWS A 5.28: ER80S-G	EN 21952-A: G CrMo1Si
	INEFIL B2 L	AWS A 5.28: ER70S-B2L	EN 21952-B: G 1CML
TIG Rods	INETIG B2	AWS A 5.28:ER80S-B2	EN 21952-B: W 1CM
	INETIG CROMO 1	AWS A 5.28: ER80S-G	EN 21952-A: W CrMo1Si
SAW Submerged arc	INESUB EB2	AWS A 5.23: EB2	EN 24598-A: S CrMo1
	INESUB EB2R	AWS A 5.23: EB2R	EN 24598-A: S CrMo1
FCAW Cored wire	INETUB B81T5-B2	AWS A 5.29: E81T5-B2	EN 17634-A: T CrMo1
	INETUB M81TG-B2	AWS A 5.28: E80C-B2	EN 17634-A: T CrMo1
	INETUB R81T1-B2	AWS A 5.29: E81T1-B2	EN 17634-A: T CrMo1
SMAW Electrodes	INE B2	AWS A 5.5: E8018-B2	EN 3580-A: E CrMo1
	INE B2 L	AWS A 5.5: E7018-B2L	EN 3580-A: E CrMo1L