

GRIDUCT 4

IDENTIFICATION

Griduct 4, E 9018-B3

CLASSIFICATION

AWS/SFA 5.5: E 9018B3, BS 2493 2CrMoBH,

DIN 8575: E CrMo2B26

DESCRIPTION

Hydrogen controlled, heavy coated, basic type electrode depositing a low carbon 2.25% Cr / 1.0 Mo weld metal. It is intended for welding creep resisting steels of similar composition used in steam generation plant operating at temperature up to 600°C. The weld deposit meets x-ray / radiographic quality requirements.

WELD METAL ANALYSIS (RANGE) %

C	Mn	Si	S	P	Cr	Mo
0.05 - 0.12	0.4 - 0.9	0.2 - 0.6	0.025 max	0.03 max	2.0 - 2.50	0.90 - 1.25

MECHANICAL PROPERTIES (RANGE)

UTS (MPa)	PS (MPa)	EL (%) (L=4D)	CVN Impact Value	
620 - 740	530 - 620	17 - 24	Temp	Joules
			27±2°C	40 - 90

TYPICAL APPLICATIONS

- ASTM A 199, A 200,
- A 213 Grade T22, T36 & T4
- A 182 F 22
- A 387 Grade D
- A 217 WC9
- A 335 Grade P 22
- Chemical and Petrochemical industries where resistance to hydrogen attack, corrosion from sulphur bearing crude oil and stress corrosion cracking in sour atmosphere is required.

REDRYING TEMPERATURE FOR ELECTRODES : 300°C / 1 hr

MICROSTRUCTURE : In PWHT condition, the microstructure consists of tempered bainite

ASME IX QUALIFICATION : QW 432 F - NO, QW 442 A - NO 4

WELDING POSITION :



PACKING PARAMETERS

Size (mm)	Length (mm)	Amps AC (70V) / DC (+)	Packing / Box (kg)	Packing / Box (Pcs)
2.5	350	60 - 90	5 x 4 = 20	160 x 4 = 640
3.15 / 3.20	350 / 450	90 - 140	5 x 4 = 20	110 x 4 = 440
4	450	130 - 180	5 x 4 = 20	70 x 4 = 280
5	450	160 - 220	5 x 4 = 20	45 x 4 = 180

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