



MAXFIL-42R

Rutile Type Flux Cored Wire

CODIFICATION: AWS/SFA 5.29 F111T1-K4C

CHARACTERISTICS AND APPLICATIONS:

Maxfil-42R is a low alloy steel flux cored wire designed for welding of high strength fine grained guenched & tempered steels to meet sub-zero impact resistance property down to -18°C. The wire is suitable for positional welding application, results easy slag removal and has excellent welders appeal. Weld bead is smooth & uniform and satisfies the requirements of radiographic quality.

Maxfil-42R is designed for single and multi-pass welding of similar composition steels and equivalent grade steels like; HY-80, NAXTRA-60/65, T-1, A/B grades of SA-203, A/B/C grades of SA-662, B/C grades of SA-737, etc. This wire is used for fabrication of penstock pipelines, crane plate, earth moving equipments and similar high strength applications, etc.

CHEMICAL COMPOSITION OF ALL WELD METAL (%):

Element	C	Mn	Si	S	Р	Cr	Ni	Mo	V
Range	0.15	1.20-2.25	0.80	0.030	0.030	0.20-0.60	1.75-2.60	0.20-0.65	0.03
Typical	0.062	2 1.50	0.33	0.014	0.018	0.36	2.34	0.38	0.005

MECHANICAL PROPERTIES OF ALL WELD METAL:

Property	UTS	YS	%EI	CVN Impact (Joules)
	(Mpa)	(Mpa)	(L=4d)	at-20°C
Range	760-900	680 Min	15.0 Min	27 Min
As Welded	815	716	18.8	45

WELDING POSITIONS: H. F. VU. OH

WELDING PARAMETER: DC (+)

Diameter	HORIZONTAL/FLAT	VERTICAL UP	OVER H	IEAD
(mm)	Volt, V Current, A	Volt, V Current, A	Volt, V	Current, A
1.20	24-28 160-260	20-22 100-160	22-25	100-160
1.60	24-28 180-300	20-22 110-200	22-25	110-200
CHIEL DING (0.4.C 0.1. D' 'I 00 /a	0000) 1 (1	121	

SHIELDING GAS: Carbon Dioxide CO₂ (100%) at flow rate 12-15 litres per minute.

PACKING

Standard size : 1.20 & 1.60mm. Other diameters may be available on request.

: Supplied approximately 15 Kqs in a plastic spool. Each spool is sealed in an Quantity

air tight polythene bag and then packed in a corrugated box.