

MILD STEEL GENERAL PURPOSE STICK ELECTRODES

BRAND NAME	CLASSIFICATIONS		APPROVAL REDRYING POLARITY WELL			WELDING	NG PRODUCT DESCRIPTION POSITION		
	AWS A/SFA 5.1 IS 814	ER4212X	ABS, DNV, LRS TOYO, BV, IRS	NK.	AC OR DC(+)	F/H/V- DOWN/ V-up/OH	For welding of STRUCTURAL steels. Deposits smooth & shiny beads with fine ripples.		
	AWS A/SFA 5.1 IS 814 BS 639 DIN 1913	ER4212X	ABS, DNV, LRS TOYO, BV, IRS	100-110°C FOR 1/2 Hr.	AC or DC(+)	F/H/V- DOWN/ V-up/OH	For welding of STRUCTURAL steels, where BEAD FINISH is required. Best suited for VERTICAL UPWARD and OVERHEAD positions.		
	5.1 IS 814 BS 639	ERR4222XE	ABS, DNV, LRS TOYO, BV, IRS	100-110°C FOR 1/2 Hr.	AC or DC(+)	F/H	For weilding of STRUCTURAL steels, where HIGH WELDING SPEED is desirable. Best suited for VERTICAL UPWARD and OVERHEAD positions.		

Notes: Weld metal shall be of radiographic quality.

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BRAND NAME	CLASSIFIC	ATIONS	APPROVAL	REDRYING	POLARITY	WELDING	GPRODUCT DESCRIPTION POSITION
	AWS A/SFA 5.1		DNV, IRS, LRS	250°C FOR 1/2 Hr	AC or DC(+)	F/H/V- DOWN/ V-up/OH	For weilding of Mild steel, Medium Carbon steel heavy joints under restrints and subject to dynamic loading. Deposition efficiency 115%
	IS 814	ER4212X	GL, NPCIL, IBR, TOYO				
	DIN 1913	E5144B1026	RDSO, BIS				
SUPABASE- X X PLUS*	AWS A/SFA 5.1		DNV, IRS, LRS	Z3U (,	AC or DC(+)	F/H/V- DOWN/ V-up/OH	For weilding of Mild steel, Medium Carbon steel heavy joints under restraints and subject to dynamic loading. Best suited for 5G & 6G positions. Deposition efficiency 115%.
	IS 814 DIN 1913		GL, NPCIL, IBR, TOYO RDSO, BIS				
SILOX-Fe	IS 814 DIN 1913	ER4122 E4400A525		NR*	AC or DC(-)	F/H/V- DOWN/ V-up/OH	For weld deposit of VERY LOW SILICON CONTENT and almost PURE IRON. Weld metal is made CORROSION RESISTANT by molten Zinc. Deposits smooth and shiny beads Recommended for weilding and repairing of hot dip galvanising bath, resurfacing worn-out parts. Also used as sandwitched layer between CS and SS.
TOPSTAR 110	A/SFA 5.1 IS 814 I BS 639 I	E7014 ERR5222XJ E4322R11011 E4322RR1115		150 (AC or DC(-)	F/H/V- Down	For HIGH-PRODUCTIVITY during welding of STRUCTURAL STEEL.Best suited for VERTICAL & DOWN HAND positions. Deposition efficiency 110%.
TOPSTAR 140	BS 639 E51	R5224XK		LOU C.	AC or DC(-)	F/H	For HIGH-PRODUCTIVITY during welding of STRUCTURAL STEEL.Best suited for DOWN HAND & HORIZONTAL positions. Deposition efficiency 140%.
TOPSTAR 210		R5242XL		130 (AC or DC(-)	F/H	For VERY HIGH PRODUCTIVITY during welding of HEAVY STRUCTURES. Best suited for DOWN HAND & HORIZONTAL positions. Deposition efficiency 210%.
TOPSTAR DE	A/SFA 5.1 IS 814 ERF BS 639 E51	R5242XL		150°C FOR 1 Hrs	AC or DC(-)	F/H	For DEEP PENTRATION during welding butt and fillet joints. CONCENTRATED SPRAY TYPE ARC. AVOID BEVELLING of joint upto 7mm. Deposition efficiency 102%.
TENALLOY Z PLUS*	A/SFA 5.1 IS 814 EB BS 639 E51	5629H3JX 156B11029(H)	IRS, LRS, NPCIL IBR, TOYO,	FOR 2 Hrs	AC or DC(+)	F/H/V- DOWN/ V-up/OH	For Heavy sections and restrained joints in LOW ALLOY STEELS. Excellent TOUGHNESS down to MINUS 50°C. Recommended for POSITIONAL PIPE WELDING. Deposition efficiency 110%.
TENALLOY R*	A/SFA 5.1 IS 814 EB BS 639 E51	018-G 5629H3JX 156B11029(H) 155B1029)	ALOUU C	AC or DC(+)	F/H/V- DOWN/ V-up/OH	For heavy sections and restrained joints in LOW ALLOY STEELS, containing Ni upto 1.0% SUB ZERO TEMP. applications. Deposition efficiency 110%.
TENALLOY R (SPECIAL)*	A/SFA 5.1 IS 814 EB BS 639 E51	018-1 5629H3JX 156B11029(H) 155B1029	LRS, ABS, BV	AL 300 C	AC or DC(+)	F/H/V- DOWN/ V-up/OH	For heavy sections and restrained joints in LOW ALLOY STEELS, containing Ni upto 1.0%. SUB ZERO TEMP. applications. Deposition efficiency 110%.

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