Ratna E 6011

CLASSIFICATION

- AWS/SFA A5.1 E6011
- IS-814 EC 4316X

APPLICATIONS

• 6011 is designed for site welding of pipes and pipelines in all positions, using stove pipe and conventional techniques particularly for root bead.

DESCRIPTION

• High cellulose coated, potassium type electrode for pipe welding in DC(+) as well as AC current condition. forceful and spray arc, ensures deep penetration and weld metal is of radiographic quality. Slag system that is a fast freezing, thin and easily removable.

Ī	TYPICAL WELD METAL CHEMICAL PROPERTIES (ELEMENT %)					
	CARBON (C)	MAGNESIUM (MN)	SILICON (SI)	SULFUR (S)	PHOSPHORUS (P)	
	0.20 MAX	0.40-0.80	0.30 MAX	0.030 MAX	0.030 MAX	

CURRENT POLARITY	WELDING POSITION
DC(+), AC	FLAT, HORIZONTAL, VERTICAL, OVERHEAD

TYPICAL WELD METAL MECHANICAL PROPERTIES (ELEMENT %)					
YIELD STRENGTH	ULTIMATE TENSILE	ELONGATION (%)	CVN IMPACT AT °C		
(N/MM²) KSI	STRENGTH (N/MM²)		JOULES		
	KSI				
330-450 (48-65)	430-560 (62-81)	22-30	-30°C : 50-80 J		

SIZE AND CURRENT RECOMMENDATIONS						
SIZE D X L (MM)	SIZE D X L (IN)	CURRENT (AMPS) DC+, AC				
2.5mm x 350mm	3/32" x 14"	50-80				
3.2mm x 350mm	1/8" x 14"	80-130				
4.0mm x 350mm	5/32" x 14"	110-160				

RE-DRY CONDITIONS

Not recommended

NOTE: