

THJ422

Titania Type Electrode

ISO 2560-B-E4303 A JIS D4303 (mod.) GB/T 5117 E4303

Applications:

It is suitable for welding of Rm 430MPa level low carbon steel structure.

Characteristics:

THJ422 is a titania type electrode.Can be welding by both AC & DC power source and can be for all-position. It have excellent welding performance as stable arc, little spatter, easy slag removal and reignition-ability etc.

Attention:

In generally, don't need to re-dry the electrode before welding. When it be affected with damp, should be re-dry it at 150°C-170°C for 0.5-1 hour.

Chemical Composition of All Weld Metal:

(Wt. %)

Items	С	Mn	Si	S	Р	Ni	Cr	Мо	V
Require- ments	≤0.10	0.27-0.55	≤0.25	≤0.030	≤0.035	≤0.30	≤0.20	≤0.30	≤0.08
Typical Results	0.08	0.37	0.14	0.018	0.022	0.030	0.035	0.005	0.004

Mechanical Properties of All Weld Metal:

	Items	Rm/MPa Rel/Rp _{0.2} /MPa		A/%	KV ₂ (0°C) /J	KV ₂ (-20°C) /J		
	Requirements	430-560	≥330	≥22	≥47	≥47		
	Typical Results	480	420	28	80	70		

X-ray Radiographic Inspection:

Level I

Typical Operating Procedures: (AC or DC)

Diameter (mm)	2.0	2.5	3.2	4.0	5.0	5.8
Length (mm)	300	300	350	400	400	400
Current (A)	40-70	60-90	90-140	160-210	220-270	260-310

Classification Of Society Certification:

Ship Inspection Agency	ABS	BV	CCS	HAKC	DNV	LR	NK	KR	RINA
Recognition Level	3	3	3	E4303	3	3m	KMW3	3	3

Welding Positions:

