

EXECUTIVE 71T-12MJ

CARBON STEEL

FLUX CORED WIRE TECHNICAL DATA SHEET

DESCRIPTION

Executive 71T-12MJ is an all-position flux-cored wire designed for single or multi-pass applications that demand exceptional weld metal toughness. It maintains excellent impact toughness down to -50°F (-46°C) in the as-welded and typical post weld heat treated (PWHT) condition.

Executive 71T-12MJ also boasts a smooth arc with fast freezing slag and low spatter levels, characteristics shared with other executive flux-cored wires. Additionally, unlike many other products in the market, Executive 71T-12MJ supports an "H4" lowhydrogen designation

APPLICATIONS & FEATURES

Applications include off-shore oil components, shipbuilding, pressure vessels, structural and bridge fabrication and heavy equipment where exceptional charpy impact/low temperature toughness is required.

The precisely optimized chemical composition of the weld metal imparts exceptional mechanical properties, making it well-suited for even the most stringent industry specifications.

TYPICAL WIRE CHEMISTRY & MECHANICAL PROPERTIES														
C		Mn	Si	Р	S	Cu	Ni	Cr	Мо	V				
0	.04	1.42	0.51	0.01	0.01	0.01	0.42	0.03	0.01	0.005				
Tensile Strength: Yield Strength:		80,500 PSI min 72,500 PSI min		Diffusible Hydrogen: Elongation:		, , ,		y Impact: graphic Test:	111 ft-lb (150 J) at -50°F (-46°C) Acceptable					
Tensile Strength: Yield Strength: *PWHT 1hr @ 1148°F (62		80,200 PSI min 70,600 PSI min		Diffusible Hydrogen: Elongation:		3.21 ml/100g 31%	Charpy Impact: Radiographic Test:		71 ft-lb (96 J) at -50°F (-46°C) Acceptable					

TYPICAL WELDING PARAMETERS

Diameter	Voltage	Amperage	Wire Feed Speed (in./min)	Stick-Out	Flow Rate (SCFH)	Shielding Gas
0.4511	21-23	160	200	E/O 2/4II	40.50	750/ 4 / 250/ 60
.045"	24-26 27-29	225 275	310 400	5/8 - 3/4"	40-50	75% Ar / 25% CO ₂
	25-27	240	165			
.062"	26-28	260	190	3/4" - 1"	40-50	75% Ar / 25% CO ₂
	29-30	300	250			

STANDARD PACKAGING

2,640-lb pallet **Spools** 44-lb plastic spools

CLASSIFICATION

AWS A5.20/ASME SFA A5.20 E71T-12MJ H4 AWS A5.36(M) / ASME SFA-5.36(M) Class E71T12-M21A5(A4)/M21P5(P4)-CS2-H4 CWB to CSA W48 Class E491T1-M21A5(P5)-CS2-H4 Meets AWS D1.8 for Seismic Applications. ABS 4YSA H5

