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ISO 9001:2008 REGISTERED Certificate No.: 50040 & 50415

PREMIER 70C-6M LTT DATA SHEET

Pinnacle Allloys Premier 70C-6M LTT AWS CLASS E70C-6M CODE AND SPECIFICATION DATA: AWS A5.18 ASME SFA 5.18; UNS W07706

DESCRIPTION:

Pinnacle Alloys Premier 70C-6M LTT is a microalloyed version of E70C-6M. It has enhanced CVN toughness at temperatures as low as -50°F. Pinnacle Alloys Premier 70C-6M LTT is a metal cored electrode intended for both single pass and multipass applications. These electrodes are characterized by spray arc and excellent bead wash characteristics. They are intended to be used with 75-80% Ar/ balance CO₂ shielding gas. Typical base metal specifications for these steels are ASTM A 36, A 285-C, A 515-55, and A 516-70, which have UNS Numbers K02600, K02801, K02001, and K02700, respectively.

DIAMETERS: .045"

WELDING POSITIONS: All positions











TYPICAL DEPOSIT COMPOSITION:

AWS Spec	Weld Metal Analysis (%)
0.12	0.04
0.20	0.04
0.50	0.03
1.75	1.54
0.30	0.01
0.50	0.41
0.03	0.01
0.90	0.62
0.03	0.009
0.08	0.01
	0.12 0.20 0.50 1.75 0.30 0.50 0.03 0.90 0.03

NOTE: Single values are maximums.



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TYPICAL MECHANICAL PROPERTIES:

	AWS Spec (min)	As Welded
Ultimate Tensile Strength	70,000 psi (480 MPa)	88,900 psi (610 MPa)
Yield Strength	58,000 psi (400 MPa)	76,300 psi (525 MPa)
Percent Elongation in 2"	22%	28%
CVN @ -20°F (-30°C)	20 ft•lb _f (27 Joules)	63 ft•lb _f (85 Joules)
CVN @ -50°F (-45°C)	Not required	37 ft•lb _f (50 Joules)

TYPICAL WELDING PARAMETERS:

Diameter	Amperage	Voltage
	180	27-28
.045"	255	29-30
	330	30-33

NOTE: These values were calculated using optimum parameters, flat position, and DCEP polarity. Maintaining a proper welding procedure, including pre-heat and interpass temperatures, may be critical depending on the type and thickness of steel being welded.

NOTICE: The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for the use in the field. The manufacturer disclaims any warranty of merchantability of fitness for any particular purpose with respect to its products.

CAUTION: Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standards A49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33126: OSHA Safety and Health Standards 29 CRF 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.

Pinnacle Alloys SDS sheets may be obtained on the website below.