



## AUTOTHERME Cr-Mo 2

**CODIFICATION:** AWS : SFA 5.28 ER90S-B3

### CHARACTERISTICS AND APPLICATIONS:

Autotherme Cr-Mo 2 is a copper-coated solid wire for GMAW, available in bright finish. The wire gives stable arc, smooth welding performances and deposits radiographic quality welds. It is suitable for welding 2.25Cr - 1Mo steel. The weld metal possesses good high temperature properties. It deposits notch free weld deposit with excellent mechanical properties. Especially suitable for welding of pipes and tubes of matching composition in Power plants, Refineries, Petrochemicals, Fertilizer plants, etc. Suitable for welding of ASTM steels: Grade F22 (class 1 & 3) of SA-182 and SA-336, Grade T4, T22 of SA-199, Grade T22 of SA-213, Grade WC9 of SA-217, Grade P22 of SA-335, Grade FP22 of SA-369, Grade 22, 22L of SA-387, Grade CP22 of SA-426, Grade 22 of SA-541, Class 1 of A, B types of SA-542, etc.

### TYPICAL CHEMICAL COMPOSITION OF SOLID WIRE:

Element	C	Mn	Si	S	P	Cr	Mo	Cu
%	0.09	0.50	0.55	0.010	0.012	2.50	1.10	0.10

### TYPICAL MECHANICAL PROPERTIES OF ALL WELD METAL:

(PWHT: 690°C FOR 1 HR)

UTS (MPa)	YS (MPa)	Elongation (L=4d) %
680	600	19

### WELDING PARAMETER: DC(+)

Diameter	Flat	
	Volt, V	Current, A
1.20 mm	27-32	300-360
1.60 mm	25-30	340-420

**SHIELDING GAS:** Argon/ 1-5% O<sub>2</sub>

**WELDING POSITION:** H, F, VU, OH

**APPROVAL:** CIB-MP

### PACKING:

STANDARD SIZE	1.2 mm & 1.6 mm.
QUANTITY	15.0 kg wire, layer wound in a plastic spool that conforms to DIN-8559 SD-300.