

CHROME WELD FUSION-AP is an all positional flux cored wire for hardfacing of apparatuses exposed to metal to metal wear, impact and high abrasion. It has the capability to be applied in a single or multiple passes, leaving a good appearance and high quality weld deposit. CHROME WELD FUSION-AP is a good option when fit-up is a concern. The wire has been developed to operate in spray transfer mode whilst welding in all positions, producing low splatter levels. CHROME WELD FUSION-AP has a microstructure that consists of small carbides suspended in a medium alloy martensite matrix allowing for an exceptional abrasion and impact resistance.

Typical Deposit Characteristics

Abrasion Resistance	Good
Hardness	HRC 55 - 60
Impact Resistance	Good
Deposit Layers	4 Layer Max. (Based on 1/8" thickness per layer)
Position	Flat, Horizontal, Vertical, Overhead
Surface Cross Checks	None-With proper preheat and interpass temperature
Machinability	Poor-Grind deposit with soft tool steel grinding wheels to prevent burning and heat checking of the surface.
Magnetic	
on Stainless Steel	Slightly
on Carbon Steel	Yes
on Manganese Steel	Yes
Hot Wear Applications	1,000° F (540° C)

Operational Characteristics / Welding Parameters

Diameter, in (mm)	0.045 (1.2 mm)		
Current, Amp DCEP	100 - 280		
Wire Feed Speed (m/min)	240-470 (6.1 - 12.0)		
Voltage	18 – 30		
Wire Extension, in (mm)	½" – ¾" (12 - 19)		
Shielding Gas	100% CO ₂	OR	75% Ar / 25% CO ₂
Position	All		

TYPICAL ALL-WELD METAL ANALYSIS						
C	Mn	Si	Cr	Mo	V	Fe
0.5	1.8	1.3	7.5	0.5	0.3	Bal

Alloy Type

Small Primary Carbides in a Martensitic Matrix

Typical Applications

- Buckets/Shovels
- Dredge Parts
- Chutes/Hoppers
- Mining Truck Beds
- Forestry Equipment

Standard Sizes & Packaging

Diameter: 0.045" (1.2 mm)
 Packaging: 33# Spools