Oxford Alloy® EB8

AWS EB8 • Chrome Moly

Key Features

- Designed for submerged arc welding applications of materials of similar composition.
- This alloy, being an air-hardening type, calls for preheat and interpass temperatures of not less than 350°F during welding.
- Sometimes referred to as 505.

Conformances

AWS/ASME SFA 5.23
EB8
UNS S50480

Chemical Composition – As per AWS 5.23						
C	**Mn**	**Si**	**Cr**	**Mo**	**P**	**S**
0.10 max	0.30-0.65	0.05-0.50	8.0-10.50	0.80-1.20	0.025 max	0.025 max
Cu						
0.35 max						

Mechanical Properties - As per typical heat with suitable flux			
	Tensile Strength MPa (ksi)	Yield Strength MPa (ksi)	Elongation %
Typical Results - As welded	550 (79)	430 (63)	30

Typical Welding Parameters					
Diameter		**Process**	**Volt**	**Amps**	**SAW Flux**
in	**(mm)**				
3/32	2.4	SAW	28-32	250-400	Suitable Flux
1/8	3.2	SAW	30-34	400-600	Suitable Flux

Diameters & Packaging					
Oxford Alloys USA			**Oxford Alloys Asia Pacific**		
Diameter (in)	**Form**	**Packaging (lbs)**	**Diameter (mm)**	**Form**	**Packaging (kgs)**
3/32	SAW	60 lb Coil | 1800 lb pallet	2.4	SAW	25 kg Coil | 750 kg pallet
1/8	SAW	60 lb Coil | 1800 lb pallet	3.2	SAW	25 kg Coil | 750 kg pallet

Actual test results may vary. Refer test result disclaimer on page 160.