Silicon Bronze TIG

Classification

AWS.A5.7 ERCuSi-A

Description

TALWELD SILBRO (ex China) and Sil-Weld (ex USA) filler metal are copper-base alloys containing approximately 3% silicon. They are used for the gas tungsten arc welding of copper-silicon and copper-zinc alloys (brass) and for welding steel to itself or to these alloys.

Application

TALWELD SILBRO and Sil-Weld are particularly suited to weld galvanized (zinc coated) steels since the deposited metal does not destroy the zinc coating in the vicinity of the weld, thereby retaining its corrosion protection, while the bronze weld metal itself is highly corrosion resistant.

Shielding Gas

Welding grade Argon for GTAW (TIG)

Chemical Composition of Solid Wire

Cu	Zn	Sn	Mn	Fe	Si	Al	Pb	Total Others
Balance	1.00 Max.	1.0 Max.	1.5 Max.	0.50 Max.	2.8 – 4.0	0.01 Max.	0.02 Max.	0.50 Max.

Typical Mechanical Properties of Weldmetal

Tensile strength	Yield strength	Elongation
350 MPa	165 MPa	30%

Packaging

Diam. (mm)	1.6	2.4	3.2
Pack	5kg		
Length	1000mm for ex China 915mm for ex USA		