

CuAl 10 Data Sheet

Introduction

CuAl 10 is an iron-bearing copper Aluminium MIG & TIG filler metal that is primarily designed for joining aluminium bronze, silicon bronze and manganese bronze, some high strength Copper-Zinc and Copper-Nickel alloys, as well as many ferrous metals such as steel, cast iron and galvanized iron. It is also good for joining dissimilar metals such as cast iron, carbon steels, copper, bronze and copper-nickel material. Weld deposits exhibit high mechanical properties, tensile strength, yield strength and hardness.

Equivalent: TAFA 10T, Sprabronze AA, PMET 590

Standard: BS EN14640

Chemical & Physical Properties

Class	Cu	Al	Fe	Others	Solids Temperature	Density	Elongation	Liquids Temperature	Tensile Strength	Brinell Hardness
Cu6180	Bal.	9.5	1	<0.5	1030°C	7.6kg/dm ³	20%	1090°C	621N/mm ²	166HB

Applications

- Ship constructions
- Apparatus
- Plumbing

Standard Dimensions

Wire	Diameter (mm)	Tolerance (mm)
	1.6, 2.0, 3.17	+ 0 / - 0.05

Other sizes (diameter and wire weight) can be manufactured accordingly to the requirements of customers.

Packaging

Spool	15kgs / spool (D300 spool)
Coil	20 - 400kgs / coil