TECHNICAL DATA SHEET

TERNALLOY 445

Brazing alloys, Cadmium Free

EN ISO 17672:2016 Ag 245
AWS A5.8-92 BAg-5
ISO 3677:1997
DIN 8513
(EN 1044:1999)

Nominal Composition [%]

Ag	Cu	Zn	Sn	Si	Mn	Ni
45	30	25	-	-	-	-

Technical Data

Melting Point	c.a. 665 - 745 °C
Working Temperature	c.a. 730 °C
Density	c.a. 9,1 gr/cm3
Tensile strength	400 Mpa
Elongation	25%
Electrycal Conductivity	approx. 11,2 m/Omm2
Operating temp. of brazed joint	

Applications

Alloy with excellent capillarity power. Particolary suitable for "works on line". These alloys can be used as a substitute to Cd bearing alloys. Considering that the working temperature of alloys with similar Silver containt (but without Cd) is higher than the one with Cd, by means of these alloys the users can proceed to make joints on base metal which will be in contact
with food or pharmaceutical products. Besides they guarantee a better health safety on the working place, because during brazing process they do not leave dangerous fumes or dust.

Suggested Flux

F62 - F16

Base Metals

Any steel, copper and copper alloys, nickel and nickel alloys

Heat Sources

It can be used for flame or induction brazing procedures.

Bare rods	Fluxcoated	Wire < Ø 1,0	Wire > Ø 1,0	Foil	Preforms	Paste
X	X	X	X	X	X	-

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