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TECHNICAL DATA SHEET

TERNALLOY 40 N

Brazing alloys, Cadmium Free

EN ISO 17672:2016 Ag 440
AWS A5.8-92 BAg-4
ISO 3677:1997
DIN 8513
(EN 1044:1999)

Nominal Composition [%]

Ag	Cu	Zn	Sn	Si	Mn	Ni
40	30	28	-	-	-	2

Technical Data

Melting Point	c.a. 670 - 780 °C
Working Temperature	c.a. 760 °C
Density	c.a. 8,8 gr/cm3
Tensile strength	150-300
Elongation	n.a.
Electrycal Conductivity	n.a.
Operating temp. of brazed joint	

Applications

Ternalloy 40 N, as Ternalloy 50 N, is used extensively for little carbide tip brazing, but flows less than Ternalloy 50 N. This alloys has 2% nickel, which offer higher strength and better wetting to steel than any of the other standard Cd-Free alloys available, thus enhancing the final braze joint. It contains no tin and, thus, is not subject to the formation of brittle intermetallics.

Suggested Flux

F4 - F25 - F9

Base Metals

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

Heat Sources

Torch- flame brazing / Induction

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

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