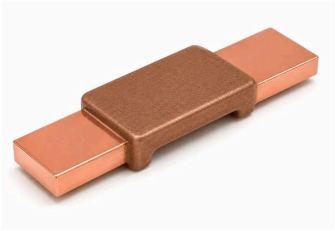
exothermic welding TT7

Overlap joint of two copper tapes

Complies with IEEE 837 and UL 467

Tape-to-tape exothermic welding



Code	TT7
Connection type	Overlap joint of two copper tapes
Group	Tape to tape
Tape dimensions	20×3 to 60×5 mm
Weld powder	KWD 115 to 2 × KWD 250
Matching handle clamp	HC 01
Standard	As per IEEE 837 and UL 467
Mould body material	High-grade graphite
Mould lid material	Stainless steel
Mould life	50 to 60 welds with correct use

exothermic welding TT7 Used for an overlap joint of two copper tapes in earthing grids, bonding and lightning protection. After welding, the joint becomes one with the conductors and has no bolts or nuts to work loose over time. In an overlap joint, the ends of the two tapes lie one on top of the other instead of butting edge to edge, and the weld fully encloses the overlapping section of both tapes.

Mould and powder selection table

Tape (mm)	Weld powder	Mould code
20×3	KWD 115	TT7-203
20×5	KWD 150	TT7-205
25×3	KWD 150	TT7-253
25×5	KWD 200	TT7-255
30×5	KWD 250	TT7-305
40×3	KWD 250	TT7-403
40×5	2 × KWD 150	TT7-405
50×5	2 × KWD 200	TT7-505
60×5	2 × KWD 250	TT7-605

> The mould code and powder size are also marked on the lid of each mould. Do not substitute powder from another mould or another size. For other sizes, contact our specialists.

Preparation and welding

Cut the tape ends square, flatten them and brighten them with a wire brush so the edges sit side by side in the mould with no gap.

1. Check the mould and powder against the table.
2. Preheat a cold mould before the first weld.
3. Clean the conductors to bright metal and dry them fully.

4. Close the handle clamp, place the conductors in the centre of the chamber and lock the mould.
5. Place the steel disc concave side up and pour in the powder.
6. Add the starting powder, close the lid and ignite it with a flint igniter.
7. Wait at least one minute, then open the mould.
8. Clean the mould with a soft brush and a scraper; never use a wire brush.

Welds KALWELD Complies with IEEE 837 and UL 467 , welds KALWELD have passed freeze testing (10 cycles), thermal cycling (25 cycles) and a 20 kA short-circuit test at the Power and Water University of Technology (Shahid Abbaspour) (reports 95/4221 and 95/4220, 1395/12/24).

Result
Approved by

Full illustrated guide, safety notes and troubleshooting: exothermic welding instructions KALWELD at www.kalot.ir

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