exothermic welding CS25

Complies with IEEE 837 and UL 467

Downward-facing copper conductor end to a vertical steel plate

Conductor-to-steel plate exothermic welding



Code	CS25
Connection type	Downward-facing copper conductor end to a vertical steel plate
Group	Conductor to steel plate
Conductor cross-section	16 to 300 mm²
Weld powder	KWD 045 to 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 CS25 Used to join the downward-facing end of a copper conductor to a vertical steel plate 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.

Mould and powder selection table

Conductor (mm²)	Weld powder	Mould code
16	KWD 045	CS25-016
25	KWD 045	CS25-025
35	KWD 065	CS25-035
50	KWD 090	CS25-050
70	KWD 090	CS25-070
95	KWD 115	CS25-095
120	KWD 115	CS25-120
150	KWD 150	CS25-150
185	KWD 150	CS25-185
240	KWD 200	CS25-240
300	KWD 250	CS25-300

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

Clean the weld area on the steel down to bright metal with a grinder or file; a brush alone is not enough. Paint, rust, oil and galvanised coating must be removed completely. After welding, cover the exposed surface around the joint with zinc spray or anti-rust paint.

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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