

Product Datasheet: thermOweld® Moulds M-100 & M101

The thermOweld permanent-connection process is an easy and efficient field welding system. Any field installer or contractor can use the high-grade graphite moulds. Ignition is done safely from the top of the mould with limited exhaust emanating from the side vent.

Using thermOweld's superior weld metal, a high temperature reaction between special formulations of powdered copper oxide and aluminium takes place in the mould crucible. Upon reaching critical temperature, the resulting molten copper drops into the weld cavity, instantly creating a high-temperature molecular bond with the conductor. This weld connection cools rapidly and the mould can be removed for the next connection with offset handle clamps. The thermOweld® process creates a permanent, homogenous and molecular bond that cannot loosen or corrode.

EXOTHERMIC MOULDS

The exothermic reaction takes place in a semi-permanent graphite mould with a special formula of copper oxide and aluminium.

MOULDS FOR CATHODIC PROTECTION

thermOweld type CS-32 moulds are required for making horizontal cable connections to horizontal steel surfaces in CP applications. The two most commonly used moulds are M-100 used for flat steel and DN 100 pipe (4" dia.) and over, and M-101 for pipes between DN20 (¾") and DN90 (3 ½" dia.). Both moulds are used with CA-15 charges and 6mm² copper sleeves.



Cable	Range	Part Number	Charge Size	Sleeve P/n
6mm ²	Flat Steel and Pipe DN100 and over	CA-M100	15g	CACS-06
6mm ²	Pipe from DN 20 to DN90	CA-M101	15g	CACS-06

A very wide range of other moulds is available for joining cables, bus bars, earthing rods and rails in every conceivable combination and configuration. For detailed information contact our sales team.

TRAINING

Anode Engineering training courses for exothermic weld competency can be arranged at our HQ or on site.

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