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Molten Metal Splash Test Equipment

Description:

A self contained steel cabinet, comprising 3 chambers.

The lowest chamber houses an air cylinder, which provides the means to eject the molten metal charge (instead of the spring-loaded piston mechanism referred to in the standard).

The centre chamber contains the ejector head which is fitted to the end of the air cylinder piston rod. The crucible containing the molten metal charge is loaded in here using the tongs provided.

The top chamber contains the sample mounting platform, which has a vertical hole connecting to the centre chamber, allowing the ejected metal charge to impact upon the underside of the eye protector sample which is secured to the upper surface of the platform.

The upper two chambers are fitted with sheet steel doors, to allow access. They are interlocked with a pneumatic circuit so as to prevent ejection if either door is not closed.

Also shown in the photograph are the hand operated, spring return, mushroom button, air valve, located on the right side of the cabinet at the top and the safety interlock valves.

Services required:

Floor mounted. Compressed air at a pressure up to 6 bar.
A high temperature furnace is required – see separate specification sheet..

Approximate packed size & weight:

110 x 60 x 40 cm : 120 kg

Relevant standard:

BS EN 168 : 2001, para 10.1

Delivery: 8 weeks from receipt of order and deposit.

Effective: May 2008

UKAS TESTING 0316
UKAS QUALITY MANAGEMENT 027