DR.-ING.GEORG WAZAU Mess- + Prüfsysteme GmbH

Keplerstraße 12, D-10589 Berlin, Telefon +49-30-344 30 88/89, Fax +49-30-3441976
Web www.wazau.com E-Mail vertrieb@wazau.com

Testing machine MMS DIN EN 9185

Application: Resistance of a material against liquid metal splashes.

Principle: During the test defined amounts of melted liquid metal are poured onto the specimen which is positioned in certain angle on the specimen holding frame. A PVC film is attached behind the specimen and in contact with it. The damage is assessed by recording the changes to the PVC film after the pouring process. According to the result the test is repeated with either a larger or a smaller amount of metal until the minimal amount which damages the PVC film is determined. The melt is molten in a melting pot by an induction coil and a high-frequency generator. A high-performance optical fiber two color pyrometer is used as command variable for the temperature control and for determining the pouring temperature. The temperature is adjusted between 700 and 1800°C by a temperature control. The tilting speed and tilting angle are controlled by a stepper motor. The power supply is provided by a three-wire plug 3 ~ 400 VAC (5x16 A 6h CEE). The cooling mechanism works with a continuous water flow which is provided by an inlet and outlet on the testing device.

Constituents:
Testing device with rack
High performance optical fiber two color pyrometer
High-frequency generator
Induction coil
Melting pot
Controlling device with temperature control
Motor-driven tilting mechanism
Holder for melting pot
Holding frame and scales
Sand bowl

Technical specifications:
Power supply: 3 ~ 400 VAC 50/60 Hz
Energy input: ca. 7.5 kVA
Weight: ca. 100 kg