

## Technical specification LOOP

### Description

LOOP is an analysing tool which ensures the quality of a metal before casting. It gives information if the metal has the right quality, or if adjustments has to be made before casting.

### Material

The material consists of compressed AES fibre, which stands for Alkaline Earth Silicate. AES fibre can handle temperatures up to 1100 °C. As a binder starch is used, which causes harmless gases when combusted.

### Chemical composition in %

SiO <sub>2</sub>	60-67
CaO	27-33
MgO	3-7
Al <sub>2</sub> O <sub>3</sub>	<1
Fe <sub>2</sub> O <sub>3</sub>	<0,6

### Physical properties

Color	White/beige
Melting point	>1330 °C
Density	270 kg/m <sup>3</sup>
Modulus of rupture	>700 kPa
Highest recommended user temperature:	1100 °C

### Thermal conductivity in W/mK

Average temp:	
400 °C	0,07
600 °C	0,10
800 °C	0,14

### Dimensions

#### External dimensions

Lower part:	196x196x14 mm
Filler:	ø65 x 50 x ø80 mm
Stopper:	~80 mm pullwire height
Weight	~150 g (total weight for lower part, filler and stopper before usage)

