

CALDE® TROWEL HB 62 U

PRODUCT TYPE

Maximum recommended temperature	: Alumina - Silica product
Main component	: Jointing material
Type of bond	: 1600°C
Appearance	: Bauxite
Packaging	: Chemical - Inorganic
Shelf life	: Wet, ready to use
Installation method	: bucket
Maximum grain size	: 12 months
Material required	: Trowelling
Guidelines	: 0.5 mm
	: 1.85 T/m³
	: Installation Nr 32

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
<u>CHEMICAL ANALYSIS</u>			
Al2O3	EN ISO 1927-3	63.0	%
SiO2	EN ISO 1927-3	30.0	%
Na2O	EN ISO 1927-3	3.2	%
TiO2	EN ISO 1927-3	1.5	%
Fe2O3	EN ISO 1927-3	1.0	%

Commercial Code : MAM60003

Version : 11

Date : 07/01/2014

The data are current production averages. They cannot be used as limits for a specification.

Comments on the TDS (Technical Data Sheet)

This product is a composition of different raw materials.

Exceptions mentioned, all indications given below are linked to the different parts of the last EU regulation EN ISO 1927.

1-PRODUCT TYPE

2-MAXIMUM RECOMMENDED TEMPERATURE:

The given temperature is a summary of:

- RUL (Refractoriness Under Load) – measurements
- PLC (Permanent Linear Change) of test samples fired at elevated temperatures.
- Visual appearance of the fired test sample.
- Practical experiences

The temperature is based on the product being heated on one face only, in a non-corrosive atmosphere.

Heating on more than one face, mechanical load, or the presence of dust, gases, slag or metal can decrease the maximum recommended service temperature.

3-MAIN COMPONENT(s)

4-TYPE OF BOND

Where several bonds are used together, the bond is designated according to the nature of that bond which plays the principal part during hardening.

5-SHELF LIFE:

The period indicated begins with the date of production and is based on the storage under cool, dry, frost-free conditions. If this period is exceeded, material does not necessarily become useless. In this case, it is recommended that the material should be checked after consulting Calderys. A bad storage conditions may affect the storage life of the material.

6-INSTALLATION - METHOD:

In some cases, Calderys products can be applied by different installation methods.

All figures on this Technical Data refer to the installation method mentioned hereunder. For other installation methods, see "remarks".

7-MAXIMUM GRAIN SIZE

8-MATERIAL REQUIRED (Yield):

The figure refers to the material as delivered for placing 1m³ (volume) by applying the installation technique as mentioned. For gunning materials, the figure includes compensation for rebound under standard conditions. For no standard conditions, for instance gunning of thin layers or overhead gunning may increase the amount of material required.

In some cases, if the rebound is not included, the information is written near the "material required" (yield) value.

9-DRINKING WATER REQUIRED FOR MIXING ON SITE:

The consistency of the products can be adjusted within the specified range of liquid addition. In case of water, potable one has to be used (see the Installation Guideline).

10-GUIDELINES: The "Installation Guidelines", written by CALDERYS, are dedicated to each known case, when possible. Those documents have to be carefully read before preparing, installing and drying the product.

The information given in our Installation Guidelines linked to the well-known phenomena of "Carbonation" with efflorescence is a general problem, when hydraulic bond (based on cement) is used. It is not a CALDERYS specific problem.

11-CHEMICAL ANALYSIS

12-BULK DENSITY

13-OPEN POROSITY

14-COLD CRUSHING STRENGTH

15-PERMANENT LINEAR CHANGE

16-THERMAL CONDUCTIVITY:

For the determination of the thermal conductivity figures, laboratory tests and results achieved under practical conditions were taken into consideration. For the determination of the thermal conductivity figures, laboratory tests and results achieved under practical conditions were taken into consideration. Measurements are made according to the EN ISO 1927 (8) and EN 993-15.

17-CARBON MONOXIDE RESISTANCE: Determined according to EN ISO 12676 (ASTM C-288)

18-ABRASION RESISTANCE AFTER FIRING AT...: Determined according to EN ISO 16282 (ASTM C-704)

19-REVERSIBLE THERMAL EXPANSION AFTER FIRING [20-1000°C]: The figure is measured by RUL test according to the EN ISO 1893:2009 (with a maximum load of 0,02 N/mm² for dilatation).

20-THERMAL SHOCK RESISTANCE: When available, according to EN ISO 1927-8 but also EN 993-11 and CALDERYS CALD 022 (linked to CALDERYS internal methods CALD 007 and CALD 012).