

# TECHNICAL INFORMATION



## Marsclay Light 8432L / 8432LC

Composition:	waxes, oil, fillers (sulfur-free), pigments
Density:	approx. 0,9 g/cm <sup>3</sup> , de-aired
Color:	brown
Odor:	neutral
$\alpha$ (Linear Shrinkage Coefficient)	constant $1,7 \times 10^{-4} \text{ K}^{-1}$ (0 – 20°C / 32 – 68°F) $\emptyset$ $2,1 \times 10^{-4} \text{ K}^{-1}$ (20 – 35°C / 68 – 95°F) constant $2,6 \times 10^{-4} \text{ K}^{-1}$ (35 – 60°C / 95 – 140°F)
Shelf life:	at least 24 months at temperatures from 0°C/32°F to 30°C/86°F maximum 14 days in the oven at 55°C/131°F - 60°C/140°F
Working temperature:	55°C/131°F - 60°C/140°F
Degree of hardness:	medium
Shore hardness: A:	64 (20°C/68°F)
STAEDTLER-hardness AH / g:	23°C/73,4°F: 5.500 40°C/104°F: 900 60°C/140°F: 350
Solubility:	insoluble in water, partially soluble in organic solvent
Toxicology:	Marsclay Light is toxicologically harmless, certified by ACMI, USA.

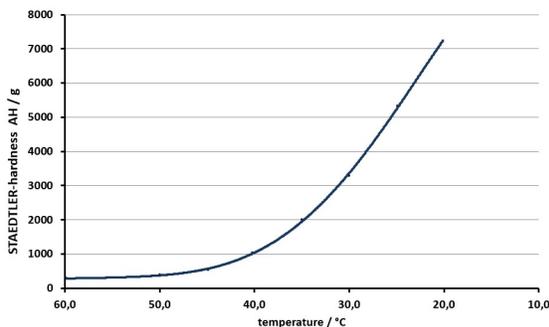


Sales information: 1 twin round bar = 1,30 kg/2,87 lbs; volume: approx.1,45 l  
(2 bars each diameter approx. 6,0 cm; length of bar approx. 26 cm)  
9 pcs in carton; 216 pcs on pallet

The values given are typical test results which should be used as a guide only. They cannot be considered a specifications or guarantees

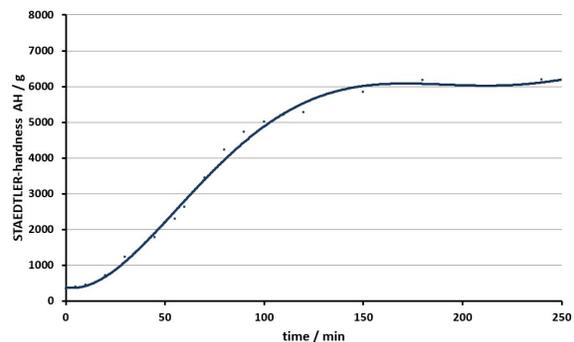
Cooling rate of Marsclay Light  
Hardness-Temperature-Diagram

Cooling behaviour to 20°C/68°F



Cooling rate of Marsclay Light  
Hardness-Time-Diagram

Cooling behaviour to 23°C/74°F



## Safety instruction:

- Do not heat Marsclay Light over the recommended temperature (60°C / 140°F).
- Hazards:
  - Burns to the skin from molten material
  - The material can be ignited at higher temperatures; the following instructions should therefore be followed:
    - Keep well away from ignition sources
    - Prevent contact with uncovered heating wires/heating coils
    - Keep well away from sparks/open flames
- Do not use any combustible materials when heating the material in the oven.
- Safety data sheets are obtainable on request.

## Instruction of use:

- As a permanently malleable compound Marsclay Light remains pliable and can be used again and again.
  - When heated to 55°C/131°F - 60°C/140°F, the clay becomes soft and pliable.
  - The heating period is about 5 hours (depending on type and loading of oven).
  - At room-temperature up to 25°C/77°F the models keep their contours and edges.
  - By hot conditions or direct solar radiation softening of the surface occurs.
  - Wood, polystyrene and hard foams can be used as base materials.
  - Base materials and the warm modelling clay bond without the need of adhesives.
  - Grave quantities should be applied in layers.
  - By applying of bigger masses, we commend to warm up the base layer for an optimum bond.
  - Once the top surface has cooled down, the model can be shaped by hand or milling machines.
  - Modifications can be made to the finished model simply and dust free.
  - Due to the special bonding qualities small amounts of material can be applied.
  - In case of serious changes, the roughening of the previous surface is recommended.
  - Finishes with modelling film can be removed quickly and easily.
  - When using a heat-gun do not exceed temperatures above 60°C/140°F.
  - The clay-model can be casted with gypsum or silicone. As releasing agent shellac can be used.
  - The clay can be lacquered with ClayPeel.
  - Soiled surfaces can be cleaned with solvent cleaner.
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