

### Characteristics

GS / Black 2002 is a black stoneware body for casting with fine chamotte.

Chamotte proportion: 20 %, chamotte grain - size: 0 - 0.2 mm

Available as blended powder ( GS / Black 2002)

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Firing Colour	black
Recommended Firing Temperature Range	1000 - 1250 °C

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### Technical Data (typical values)

#### Unfired

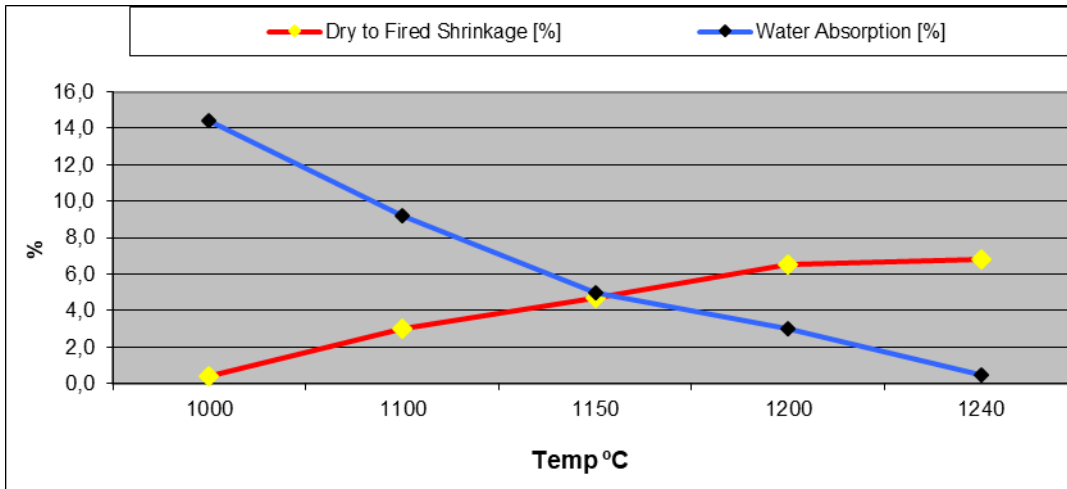
Moisture	0,8%	Powder						
Chemical Analysis	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O
	67,7%	1,10%	19,0%	8,00%	0,20%	0,80%	2,50%	0,30%
Loss of Ignition	4,2%							

Particle size Distribution [µm]  
Undersize [%]

Wet to Dry Shrinkage 1,0% casting

#### Fired

Specimen Firing Temperature [°C]	1100	1200	1240
Coefficient of Thermal Expansion [x10 <sup>-6</sup> /°C]			
20 - 400 °C	7,2	7,0	6,5
20 - 500 °C	7,6	7,4	6,8
20 - 600 °C	8,9	8,4	7,4
Dry to Fired Shrinkage [%]	3,0	6,5	6,8
Water Absorption [%]	9,0	3,0	0,5



### Casting Advice

Giessfix 162

Optimum Amounts

max. 0,03%

First deflocculant and afterwards, add the powder under slow stirring to the water.

Specific Weight to Achieve

1865 - 1890 g / l

GS / Black 2002 needs about 39 l water per 100 kg powder to achieve s.w. of 1870 g / l.

Test the casting advice in own production first remembering the mentioned amounts are depending on the hardness of the water, the type of blunger, and the desired properties of the casting.

- use the right amount of deflocculant to achieve optimum casting time
- if castthickness is too small, use less deflocculant
- don't use more than 10 - 15 % of scrap ( above the fresh made slip )

## For Product Information & Customer Service

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