



**SUSTAINABLE  
AMORPHOUS  
SILICA**

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**GSG|SAS – DATASHEET:**

**RAW MATERIAL BASIS: BIOGENOUS SILICA, FROM RICE HUSKS**

**CONDITION OF MATERIAL:  
GROUND, DRIED**

**COLOUR:  
BLACK / GREY**

**MAXIMUM GRAIN SIZE (MM) <0.1**

**PHYSICAL PROPERTIES**

Bulk Density g/cm<sup>3</sup> **0.52**  
 Specific Mass g/cm<sup>3</sup> **02-2.2**  
 ASTM-D-5604| Area m<sup>2</sup>/g **15-20**  
 ASTM-D-6845|CTAB m<sup>2</sup>/g **10-12**  
 pH **9.2**  
 High temperature behavior approx.  
 Sintering point °C **1550**  
 Melting point °C **1650**

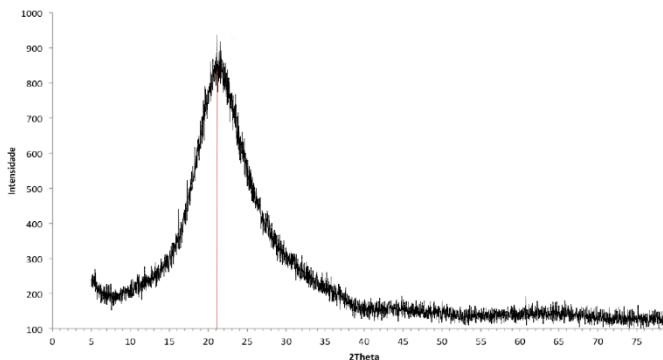
**CHEMICAL ANALYSIS - TRACE ELEMENTS**

% Weight typical on LOI:  
 K<sub>2</sub>O **1.1**  
 MgO **<0.4**  
 P<sub>2</sub>O<sub>5</sub> **<0.6**  
 CaO **<0.6**  
 Fe<sub>2</sub>O<sub>3</sub> **<0.2**  
 MnO **<0.2**  
 LOI (loss on ignition) **<0.8**  
 Remaining **<0.2**

**GSG|SAS: Amorphous Sílica:** Independent comparative tests by CEFET were completed in 2016. The studies confirmed that GSG technologies produce high quality amorphous ash – proven by this clean x-ray diffraction profile.

The stated values are quality characteristics determined in accordance with or with reference to ASTM specifications. They are typical standard values which cannot be considered as binding specifications. All previously published technical data are replaced by the values stated herein and thus become invalid.

**X-ray Diffraction Profile, GSG|SAS**



**Source:** *Study of Pozzolanic Reactivity of Agroindustrial Ash with Portland Cement, Centro Federal de Educação Tecnológica de Minas Gerais (CEFET), Department of Materials Engineering*