

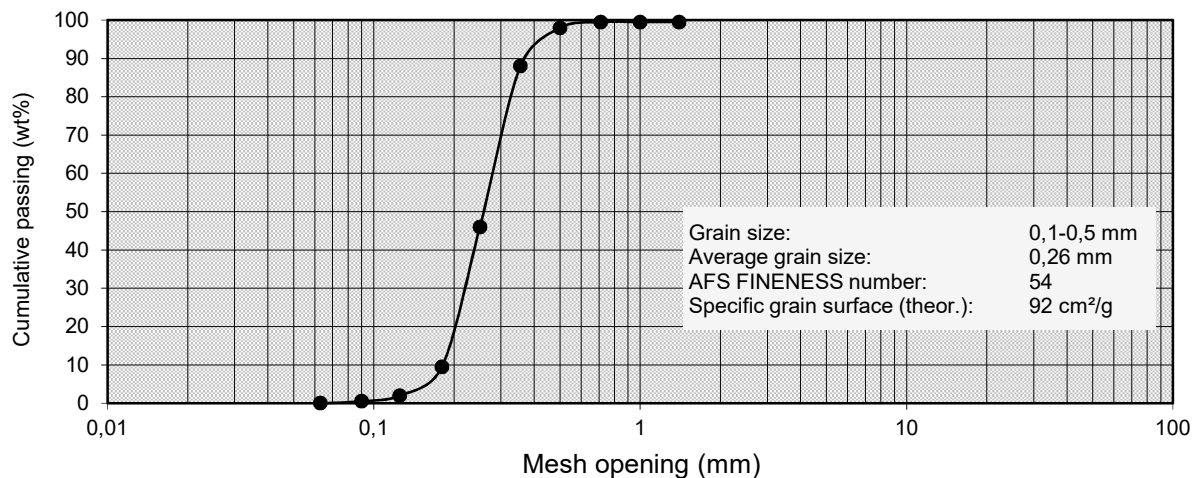
## Quartz sand: G20T - fire-dried -

### 1. General characteristics

Crystal quartz sand from SCHLINGMEIER is multiple washed and hydroclassified. The sand is characterized by its extremely high chemical and mineralogical purity. After processing the sand is neutral in pH, free of organic contaminations, soluble salts and soilings. One of the most conspicuous characteristics is its high whiteness and brightness. Delivery is made in bulk, paper or PE-bags or big bags.

### 2. Grain size distribution

| Sieve mesh opening (mm) - Retainings (wt.%) |        |     |       |      |      |       |      |       |        |       |
|---|--------|-----|-------|------|------|-------|------|-------|--------|-------|
| 1   | 0,71   | 0,5 | 0,355 | 0,25 | 0,18 | 0,125 | 0,09 | 0,063 | <0,063 | mm    |
| 0   | traces | 1,5 | 10    | 42   | 37   | 7,5   | 1,5  | 0,5   | 0      | wt. % |



### 3. Chemical analysis according to DIN 51001 with RFA

| SiO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> | K <sub>2</sub> O | Na <sub>2</sub> O | CaO   | MgO   | Fe <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | LOI  | DIN 51001 (RFA) |
|------------------|--------------------------------|------------------|-------------------|-------|-------|--------------------------------|------------------|------|-----------------|
| 99,6             | 0,11                           | <0,02            | <0,01             | <0,02 | <0,01 | 0,022                          | 0,04             | <0,1 | wt. %           |

LOI = Loss on ignition

### 4. Physical and physical-chemical characteristics

|               |                            |                                      |                  |
|---------------|----------------------------|--------------------------------------|------------------|
| Density:      | 2,65 g/cm <sup>3</sup>     | Pyrometric cone equivalent (Segger): | SK 34 (>1755 °C) |
| Bulk density: | 1,4 - 1,5 t/m <sup>3</sup> | Sinter beginning:                    | >1600 °C         |
| Grain shape:  | rounded-off                | pH-value of eluate (DIN 53 200):     | 7,0 ± 0,5        |
| Hardness:     | 7 (Mohs)                   | Conductivity (20 g, 100 ml, 1 h):    | 10 ± 5 μS/cm     |

Quartz sands are a prepared natural products. All data are approximate values and do not represent any warranty.