

## PRODUCT DATA SHEET

### RST-Si-1M

## Silicon Powder 1 $\mu\text{m}$

### 1. Description

RST-Si-1M is a high-quality, micronized silicon powder with low contents of metallic impurities.

### 2. Chemical analysis

Chemical analysis is as shown in the table below. Water content below 0.5 %, traces of organic volatiles.

Element (wt. %)	RST-Si-1M	
	1M	1M-HP
Si	$\geq 99.2$	$\geq 99.9$
Fe	$\leq 0.02$	$\leq 0.01$
Al	$\leq 0.7$	$\leq 0.01$
Ca	$\leq 0.01$	$\leq 0.01$
Cl	$\leq 0.01$	$\leq 0.01$
<b>Trace elements (ppm)</b>		
Cr	$\leq 20$	$\leq 20$
Cu	$\leq 10$	$\leq 10$
Ni	$\leq 50$	$\leq 20$
Ti	$\leq 3$	$\leq 3$
B	$\leq 1$	$\leq 1$
P	$\leq 4$	$\leq 4$
Ga	$\leq 3$	$\leq 3$

\*XRF/GDMS for metals. %Si=100%-%metals.

### 3. Sizing

Available as powder ( $d_{50} \sim 700 \text{ nm}$ ), agglomerated powder or pellets. Specific surface area (BET) is 20-30  $\text{m}^2/\text{g}$ .

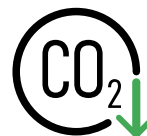
### 4. Packaging

Available in big-bags or in cardboard drums. Other packing on request.

### 5. Health, Safety and Environment

RST-Si-1M is not classified as hazardous material. We refer to our Material Safety Data Sheet number 304156.

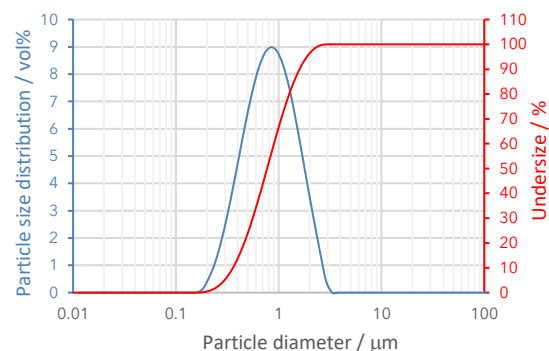
High purity silicon from ReSiTec is recovered from the photovoltaic industry and recycled in our low energy intensive production process.



**LOW CARBON FOOTPRINT**  
 2.17 tons CO<sub>2</sub> eq./ton product  
 (average metallurgical silicon is 10.6 tons CO<sub>2</sub> eq./ton product)

### 6. Contact information

For further information please contact ReSiTec AS in Norway. Our staff will assist you with technical or commercial information. Contact information is available on our web site [www.resitec.no](http://www.resitec.no) or e-mail: [post@resitec.no](mailto:post@resitec.no).



Typical particle size distribution.