

CERNIT CBS 23 - Inert-Balls	26-02-07
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3. Chemical Composition

	Techim Ceramic Balls CERNIT CBS 23
SiO ₂	68- 72 %
Al ₂ O ₃	> 23 %
TiO ₂	< 0.5%
MgO	ca. 0,5 %
CaO	ca. 0,2 %
Na ₂ O	ca. 0,5 %
K ₂ O	ca. 2,2 %
Fe ₂ O ₃ (leachable)	< 0,01 %



4. Abrasion (according to : ASTM D 441/45)

Loss in weight < 0,003 %

Subject to technical modification.
 All data represent provisional information only.
 No claims based on these data will be entertained.

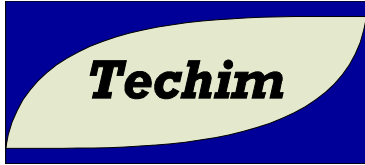
CERNIT CBS 23 - Inert-Balls**26-02-07****2/3****2. Physical Figures**

		Techim Ceramic Balls CERNIT CBS 23
Particle Density	g/cm ³	2,3 - 2,4
Bulk density (for average particle density)	kg/m ³	1350-1400
Free space	%	ca. 40 - 45
Water absorption	Weight-%	< 0.5
Acid Resistance	%	> 99.6
Modulus of elasticity [E=σ/ε]	N/mm ²	4000 - 6000
Hardness (Mohs Scale)		> 7
Specific heat	KJ/kg, °C	0,84
Thermal conductivity	KJ/m,h, °C	6,3
Thermal expansion	1/°C	4,7 10 ⁻⁶
max. application temp.	°C	982

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1. Operating Data



Nominal Size	Diameter (mm) CERNIT CBS 23	Crush strength (KN/particle)
1/8"	3 - 5	> 0.35
1/4"	6 - 8	> 0.60
3/8"	9 - 11	> 1.2
1/2"	11 - 14	> 1.85

3/4"	19 - 21	> 4.87
1"	23 - 28	> 8.5
1 1/2"	35 - 42	> 12
2"	50 - 55	> 56

Sphericity [d _{max} /d _{min}]	< 1,25
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Tolerances :

The customary permissible tolerances for ceramic products apply. A random sample is considered to comply with the tolerances if at least 90 % of the individual items in a batch satisfy the required conditions.

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