



StarCeram® Powder Portfolio

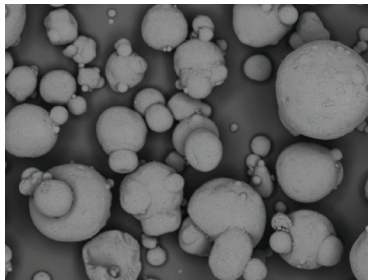


Carbides: StarCeram® S Powders

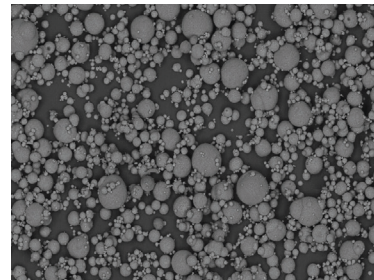
StarCeram® S Ready-to-Press Powder (rtp)

Typical reachable density: $> 3.1 \text{ g/cm}^3$
Specific surface area of the raw material (BET): $\sim 15 \text{ m}^2/\text{g}$

Product type	Description	Typ. D50 value [μm]
Grade RQ	Resin based RTP powder for excellent green machining	70
Grade SQ	PVA/PEG based RTP powder for green machining and dry pressing	62
Grade CQ	Like SQ, but better flowability for dry pressing	100
Grade HQ	Like SQ, but smaller tolerance in granule distribution	60
Grade HQ-F	Like HQ, but smaller granule sizes for highest strength	27



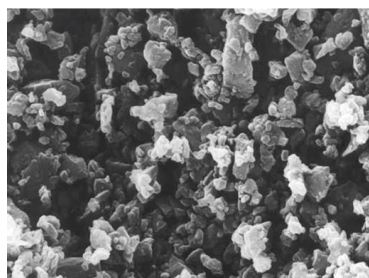
Grade RQ



Grade HQ-F

StarCeram® S Raw Ceramic Powder

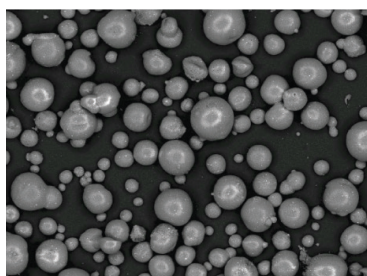
Product type	Typ. D50 Value [μm]	BET [m^2/g]	Green density [g/cm^3]
Grade UF 5	2.2	4 - 6	1.7 – 1.9
Grade UF 10	0.9	9 - 11	1.65 – 1.8
Grade UF 15	0.75	14 - 16	1.6 – 1.8
Grade UF 25	0.65	23 - 26	1.5 – 1.7



Grade UF 15

Nitrides: StarCeram® N rtp Powders

StarCeram® N Ready-to-Press Powder (rtp)		
Typical reachable density: >3.2 g/cm ³		
Product type	Description	Typ. D50 value [µm]
Grade M	Contains processing and sintering additives and is therefore qualified for a machinable processing after isostatic pressing.	35
Grade P	Contains processing and sintering additives too, but is preferred for dry pressing.	45



Grade M

KYOCERA Fineceramics Europe GmbH is a well known manufacturer of high performance ceramic SiC and Si₃N₄ powders. Our powders are tightly controlled in terms of chemistry and morphologies as well as surface area and particle size distribution. Besides their excellent quality, our focus with these high-performance powders is the exact repeatability of the powder properties. This guarantees you reproducible properties for the production of your end products. Our in-depth knowledge in ceramic powder technology and ceramic parts production is highly appreciated by our customers. We mainly serve the ceramic industry but also offer solutions for special applications like functional fillers.

KYOCERA Fineceramics Europe GmbH is represented by its sales offices and agencies in many different countries throughout the world. A cooperation agreement is in place with the company abcr GmbH specifically for serving small volume requirements. abcr GmbH is responsible for small quantities of ceramic powders from a few grams up to 100 kg. The documentation, i.e. specifications and certificates of analysis are issued by KYOCERA Fineceramics Europe GmbH.

If you want more information, contact us: kyocerafineceramics@abcr.de



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