

RECERAMAX® RS

Properties

RECERAMAX® RS is a modified microcrystalline sintered ceramic abrasive grain, which was developed according to the seeded-gel technology of RECKEL. It is produced in a resource-saving way and is therefore very economical. The hard and blocky ceramic grain is especially suitable for the use of Roughing and Cut-off wheels.



Ceramic Grain	RECERAMAX® RS
Grain Type	Sintered ceramic grain with modified structure made in a seeded sol-gel process
Grain Profile	blocky
Grain Color	white
Grit Size Range Standards	#16 - #100 FEPA-F, FEPA-P & ANSI
Hardness Vickers (kN/mm ²)	20,6 – 24,5
Grain Density (g/cm ³)	≥ 3,90
Bulk Density (g/cm ³)	1,6-2,0 (due to grit size)

Furthermore, it is also used very successfully for coarse grinding applications with resin bonded grinding wheels and Coated abrasives. The "RS" (**Reckel Seeded**) grain has a medium microcrystalline structure, which makes the RS ceramic grain particularly suitable for heavy duty applications with constant and interrupted cuts. The hard and sharp RS ceramic grain penetrates easily into metallic materials and has excellent cutting properties, resulting in easy cutting of the workpiece material. When a critical grinding force is exceeded, the grain breaks in the micro range and creates new sharp cutting edges. A cool grinding and cutting process, protect the tool and thus lead to long tool life. The maximum loading temperature within the hardening process of bonded abrasives is 1050°C. For Coated Abrasives, RS ceramic grain has excellent jumping properties in the electrostatic field. RECKEL also offers RECERAMAX® RS – Ceramic grain with an agent filled with Fe₂O₃ pigments, which is promoting the bonding quality of the grinding tools. This coating demonstrably improves the grain / binder quality and leads to more bond stability, even under the roughest machining conditions.

Availability

RECERAMAX® RS ceramic grain is available in grit size standards of FEPA-P, FEPA-F and ANSI from #16 to #100.

RECERAMAX® RS	16	20	24	30	36	40	46	50	60	70	80	90	100
FEPA - P	x	x	x	x	x	x		x	x		x		x
FEPA - F	x	x	x	x	x	x	x	x	x	x	x	x	x
ANSI #	x	x	x	x	x	x		x	x		x		x

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Packaging

RECKEL RECERAMAX® ceramic grains come in paper bags of 25 kg. Special sizes are available on request.

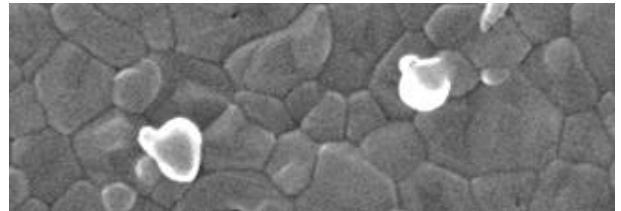
Storage

RECKEL RECERAMAX® ceramic grains should be protected from frost, heat and other extreme circumstances.

Chemical Properties

Constantly chemical and physical tests during the whole production process of all RECERAMAX® grain types ensures its sustainable quality. All test processes are part of an internationally approved quality control.

chemical element	wt %
Al ₂ O ₃	97 – 99,5 %
Na ₂ O	0,05 – 0,1 %
Others	0,1 – 3 %



Applications

RECERAMAX® products offer our customers ceramic grain types with high efficiency. Thus a wide range of applications in different fields are approachable. Constantly opening up new market fields in close collaboration with our experts.

Tools

Bonded Abrasives

- rapid grinding wheels
- grinding wheels and rollers
- cutting and roughing wheels

Coated Abrasives

- grinding belts and abrasive sleeves
- flap- and fiber discs
- clean & strip nonwoven abrasives

Applications

- cutting and roughing
- deburring and derusting
- beveling and edge seaming
- leveling welding seams
- automobile body repair
- Automotive, grinding in Body in White

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