

ROTOCELL PLUS® is an ultra lightweight and hydrophobic granulate that is enhanced to become very pure through special grinding and sieving processes. In cooperation with EVONIK industries the aggregate ROTOCELL® was developed. A special surface treatment makes the lightweight aggregate entirely hydrophobic. ROTOCELL PLUS®, as a lightweight aggregate, has wide range of applications in markets such as the paint and dry mortar industry.

Product specifications ROTOCELL PLUS®

ROTOCELL PLUS® grain sizes						
grain size in mm	0,04–0,09	0,09–0,3	0,25–0,5	0,5–1,0	1,0 - 2,0	2,0 - 4,0
bulk weight in kg/m ³	540 +/- 15%	400 +/- 15%	365 +/- 15%	330 +/- 15%	310 +/- 15%	300 +/- 15%
thermal conductivity in W/mK	*	*	*	0,08	0,08	0,07
average grain strength C _o N/mm ²	*	22**	18**	18**	18**	12**
melting point in °C	1000	1000	1000	1000	1000	1000
pH-value	7–11	7–11	7–11	7–8	7–8	7–8
colour	beige	beige	beige	beige	beige	beige
average gross grain density in kg/m ³	*	700	700	600	550	500
Mohs hardness	3	3	3	3	3	3
oversize and undersize grain	≤10% / ≤15%	≤10% / ≤15%	≤10% / ≤15%	≤10% / ≤15%	≤10% / ≤15%	≤10% / ≤15%

* upon request | ** determined in line with DIN V 18004 | upon request more grit sizes up to 16 mm

Chemical analysis ROTOCELL PLUS[®]

silica	SiO ₂	≈ 55,0%
alumina	Al ₂ O ₃	≈ 22,0%
alkali	K ₂ O+Na ₂ O	≈ 12,0%
iron oxide	Fe ₂ O ₃	≈ 3,0%
calcium oxide	CaO	≈ 2,0%
magnesium oxide	MgO	≈ 1,0%
titanium dioxide	TiO ₂	≈ 0,5%
loss on ignition		≈ 4,0%

Application area ROTOCELL PLUS[®]

Lightweight aggregate for:

- plaster
- mortar
- organic plaster systems
- paints and primers
- fine concretes
- construction chemical products
- facade panels
- lightweight building panels
- fire and sound proofing panels
- insulation products
- fills
- plastics

Advantages ROTOCELL PLUS[®]

- very low weight
- high compressive strength
- no water absorption
- great mixing properties
- best heat insulation
- excellent sound insulation
- high breathability
- non-flammable
- 100% mineral
- solvent free
- odorless
- 100% recyclable