

Qualityabrasives



The comprehensive Würth blasting abrasive range



Eisenwerk Würth has been manufacturing and selling high-quality, non-toxic, reusable abrasives for more than 90 years. Parallel to the development of blasting technology, Eisenwerk Würth offers the *most comprehensive range of abrasives* for virtually all areas of use. All products manufactured and sold by Eisenwerk Würth comply with the requirements of technical regulations for dangerous materials – and are neither toxic, carcinogenic nor do they contain free silica*.

"Blasting" – a rational necessity.

This calls for the use of an economic blasting material. Economy when blasting means the optimum combined effect of good machine settings and the right blasting abrasive of the right grain size. The long term experience we have gathered enables us to offer the best possible advice. Use our experience and our services to your best possible advantage:

- Screen analyses of blasting abrasive samples to optimize the operating mix and de-dusting settings
- Information about detusting setting.
- Blasting abrasive comparison studies and endurance tests
- Blasting trials on your work pieces to determine the most suitable abrasive
- Proposals for optimizing your blasting system

The quality of Würth blasting abrasives can be seen in practice.

See for yourself!

*(exception: ROBE)

This catalogue is intended purely for information purposes and does not represent a guarantee of specific product characteristics in any way whatsoever. 9. Edition



Metals 1

to "shot peening".

Metallic blasting abrasives are available in all types of size, mixture and grain. The range of applications stretches from cleaning castings, through de-rusting and steel de-scaling

Glass 2

As glass beads, their range of uses stretches from the aviation industry to finishing of stainless steel and non-ferrous metals. In glass grit form, they are an economic cleaning abrasive, for example for cleaning diecasting moulds.



Fused Alumina

A material obtained from alumina and bauxite which is available in various purity grades. The possibilities for use are just as varied and ranges from highly demanding medical technology, through frosting glass surfaces to roughening metals prior to special coating such as with Teflon.



Ceramics

Available as beads, they are used for hardening surfaces and optical finishing. Their long service life is a particular feature.



Plastics

The variety of applications for plastic abrasives is just as large as the range itself.

They are used anywhere where careful cleaning of sensitive parts is required without any surface removal. Another area of application is for deburring, e.g. in the cryogenic range. 6

Natural products

Natural products are available in the form of various shell granulates. They are used for careful cleaning of sensitive tools or for restoration work.

What abrasive for what job?

The index below should help you to find the application you need and

assist in answering the question: "What abrasive for what job?"

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We would be pleased to assist you personally to find the appropriate abrasive!

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Cast steel shot and grit

Steel shot VERA[®] spherical Code: GS-R



Application

Field of application: Cleaning, shot peening, roughening **Blasting systems:** Centrifugal wheel and compressed

air systems

Special features:

Cleaning castings, deburring iron and steel, de-rusting, low machine wear, long service life,shot cleaning (4–6 mm)

Product characteristics

Analysis:

C: 0.14–0.18%, Si: 0.65–0.85%, Mn: 0.35–0.55%, S: < 0.015% P: < 0.015% Structure: bainitic Hardness: HV 1.0 approx. 420-480 ≙ HRC 42.7-47.7 - as new grain HV 1.0 approx. 460-520 ≙ HRC 46.1–50.5 - as operating mixture Specific gravity: approx. 7.40 kg/l Bulk density: approx. 4.40 kg/l Screening specification: DIN 8201 part 2 or according to customer specification (tight screening specification or a mixture of specific grain sizes - optimized for your application!)

Grain classes available

4.00 – 6.00 mm	-
2.00 – 2.80 mm	S780*
1.60 – 2.24 mm	S660*
1.25 – 2.00 mm	S550*
1.00 – 1.60 mm	S390*
0.80 – 1.25 mm	S330*
0.60 – 1.00 mm	S230*
0.40–0.80 mm	S170*
0.30 – 0.60 mm	S110*
0.20 – 0.40 mm	S70*
0.16 – 0.30 mm	-
0.10 – 0.20 mm	-

Steel grit **Steelshot angular** Code: GS-K



Application

Field of application: Cleaning, roughening Blasting systems: Centrifugal wheel and compressed air systems

Special features:

Preparation of surfaces for plastic or rubber-metal combinations, blasting work where specific roughness levels have to be achieved, Sweeping (G-50 and G-80)

Product characteristics

Analysis:

C: 0.80–1.20 %, Si: 0.40–1.20 Mn 0.60–1.20 %, S: < 0.05 % P: < 0.05 % Structure: martensitic Hardness:

HV 1.0 approx. 480–550 ≜ HRC 48–52 **Specific gravity:** approx. 7.60 kg/l **Bulk density:** dependent on grain size **Screening specification:** SAE

Grain classes available

G-14= 1.18 - 2.00 mm
G-16= 1.00- 1.70 mm
G-18= 0.71 - 1.40 mm
G-25=0.42-1.18 mm
G-40=0.30 - 1.00 mm
G-50=0.18 -0.71 mm
G-80=0.12 -0.42 mm

Stainless steel **ROBE spherical / ROBE angular** Code: GS-R / GS-K



Application Field of application: Cleaning, shot peening of stainless steel and non-ferrous metals Blasting systems:

Centrifugal wheel and compressed air systems

Special features:

For all areas of application where the use of stainless abrasives is required

Product characteristics

Analysis:

C: < 0.22 %, Si: < 2.60 %, Mn: < 1.80 %, Cr: ca. 18 %, Ni: ca. 10.00 % Structure: austenitic Hardness: HV 1,0 appprox. 300 as new grain

approx. 450 as operating mixture Specific gravity: approx. 7.40 kg/l Bulk density: approx. 4.70 kg/l Screening specification: factory norm

Stainless steel grit

ROBE angular HV 1.0 approx. 750 ⁴ HRC 62 **Analysis:** C: 2%, Cr: 30% **remains angular in operating mixture**

Grain classes available

available as spherical shot
 available as angular grit

* comparable SAE-sizes

Cut wire

Steel cut wire **FILGRA cylindrical** Code: StD-Z



Application Field of application: Cleaning, specific roughening

Blasting systems: Centrifugal wheel and compressed air systems

Special features: Cleaning castings, de-scaling iron and steel with exactly defined grain sizes, available in a choice of strengths.

Product characteristics

Hardness / Tensile strength HV $450 \approx 1580/1770 \text{ N/mm}^2$ HV $600 \approx 1970/2160 \text{ N/mm}^2$ Specific gravity: approx. 7.60 kg/l Bulk density: approx. 4.40 kg/l Screening specification: factory norm

Steel cut wire **FILGRA spherical** Code: StD-G



Application Field of application: Cleaning, shot peening, VDFI 8001

Blasting systems: Centrifugal wheel and compressed air systems

Special features: Shot peening with exactly defined grain sizes and specific selection of greater strengths

Cut wire FILGRA special types



Application Field of application: Cleaning, shot peening

Blasting systems: Centrifugal wheel and compressed air systems

Special features: Available special types allow assignment to specific materials

Product characteristics

Hardness / Tensile strength HV 500 \approx 1580/1770 N/mm² HV 640 \approx 1970/2160 N/mm² Specific gravity: approx. 7.60 kg/l Bulk density: approx. 4.40 kg/l Screening specification: VDFI 8001 or factory norm

Product characteristics

Hardness / Tensile strength Depends on material (e.g. stainless steel 1.4301, copper, zinc...) Screening specification: factory norm

Grain classes available

2.00 mm	0.70 mm
1.80 mm	0.60 mm
1.60 mm	0.50 mm
1.50 mm	0.40 mm
1.20 mm	
0.90 mm	
0.80 mm	

Grain classes available

- 0.90 mm 0.80 mm
- 0.70 mm
- 0.60 mm
- 0.50 mm 0.40 mm

- 1.50 mm 1.20 mm 0.90 mm
- 0.60 mm
- 0.40 mm

Chilled iron shot and grit

Malleable iron

Chilled iron shot **DIAMANT spherical** Code: GH-R



Application Field of application: Rarely for blasting purposes Blasting systems: Compressed air systems Special features: Back-filling and shielding material as protection against ionizing radiation, shot cleaning

Product characteristics

Analysis:

C: 3.00–3.40 %, Si: 0.80–1.20 %, Mn: 0.80–1.00 %, S: < 0.17 %, P: 0.25–0.45 % **Structure:** martensitic / carbidic **Hardness:** HV 1.0 approx. 680–800 \triangleq HRC 59.2–64.0 **Specific gravity:** approx. 7,40 kg/l **Bulk density:** approx. 4,20 kg/l **Screening specification:** DIN 8201 part 2 or according to customer specification

Grain classes available

5.00-8.00	mm	0.60- 1.00	mm
4.50 - 6.00	mm	0.40-0.80	mm
2.40-3.15	mm	0.30 - 0.60	mm
2.00-2.80	mm	0.20-0.40	mm
2.00-2.30	mm		
1.60-2.24	mm		
1.25 – 2.00	mm		
1.00- 1.60	mm		
0.80- 1.25	mm		

Chilled iron grit **DIAMANT angular** Code: GH-K



Application

Field of application: Cleaning, roughening, tarnishing Blasting systems:

Mainly in compressed air systems, fine grain also in centrifugal wheel systems

Special features:

De-rusting, deburring, roughening, preparing surfaces prior to coating or painting, determination of stone-chip resistance for coatings (grain class 4,00–5,00 mm), as powder for pyrotechnics, Sweeping (0,30–0,60 mm and finer)

Product characteristics

Analysis:

C: 3.00-3.40 %, Si: 0.80-1.20 %, Mn: 0.80-1.00 %, S: < 0.17 %, P: < 0.25-0.45 % **Structure:** martensitic / carbidic **Hardness:** HV 1.0 approx.

680–800 ≙ HRC 59,2–64.0 Specific gravity: approx. 7.40 kg/l Bulk density: dependent on grain size Screening specification: DIN 8201 part 3 or according to customer specification

Grain classes available

 4.00-5.00 mm
 0.60 - 1.00 mm

 2.40-3.15 mm
 0.40-0.80 mm

 2.00-2.80 mm
 0.30-0.60 mm

 1.60-2.24 mm
 0.20-0.40 mm

 1.25-2.00 mm
 0.16-0.30 mm

 1.00-1.60 mm
 0.10-0.20 mm

 0.80-1.25 mm
 0.10-0.20 mm

0 – 200 μm 0 – 140 μm 0 – 80 μm Malleable iron THERMODUR angular Code: GT-K



Application Field of application: Cleaning, roughening Blasting systems: Centrifugal wheel and compressed air systems

Special features:

Same as angular chilled iron grit but also suitable for centrifugal wheel systems because of the lower hardness, Sweeping (0,30–0,60 mm and finer)

Product characteristics

Analysis:

C: 3.00-3.40 %, Si: 0.80-1.20 %, Mn: 0.80-1.00 %, S: < 0.17 %, P: 0.25-0.45 % **Structure:** ferritic / pearlitic **Hardness:** HV 1.0 approx. 550-650 ≙ HRC 52.3-57.8 **Specific gravity:** ca. 7,40 kg/l **Bulk density:** dependent on grain size **Screening specification:** DIN 8201 part 3

1.60–2.24 mm	0.60– 1.00 mm
1.25 – 2.00 mm	0.40-0.80 mm
1.00– 1.60 mm	0.30–0.60 mm
0.80– 1.25 mm	0.20-0.40 mm



Aluminium shot Ceramics

Soft steel shot VERA[®] Soft Code: GS-R-soft



Application

Field of application:

Careful cleaning of sensitive surfaces, mould cleaning in rubber and plastic industry

Blasting systems: Centrifugal wheel and compressed air systems

Special features: low machine wear, low dust generation, long service life, suitable for temperatures up to 400°C, no hardening of shots

Product characteristics

Analysis, typical: C: 0.14-0.18%, Si: 0.65-0.85%, Mn: 0.35-0.55%, S: < 0.015%, P: < 0.015 % Hardness: HV 1.0 approx. 220-280 ≙ HRB 209–266 as new grain HV 1.0 approx. 220–280 ≙ HRB 209–266 Specific gravity: approx. 7.40 kg/l Bulk density: approx. 4.30 kg/l Screening specification: DIN 8201 part 2 or according to customer

Grain classes available

specification

0.80– 1.25 mm 0.60– 1.00 mm 0.40-0.80 mm 0.30-0.60 mm

0.20-0.40 mm 0.16 - 0.30 mm 0.10 – 0.20 mm

Aluminium shot GRANAL



Application Field of application: Cleaning, surface finishing of lightmetal materials

Blasting systems: Centrifugal wheel and compressed air systems

Special features:

Cleaning of aluminium-sand and diecasting parts, visual equalisation of light metal workpieces produced by using different casting processes

Product characteristics

Analysis, typical:

Cu: 6.00-6.50%, Fe: 1.10-1.50%, Zn: 1.00–1.50%, Si: 0.60–1.20%, Mn: 0.30-0.60%, Mg: < 0.30%, Pb: < 0.15% Hardness: HV 0.2 approx. 90–120 Specific gravity: approx. 2.75 kg/l Bulk density: approx. 1.65 kg/l Screening specification: factory norm

Grain classes available

S-180 (1,80-2,50 mm) S-100 (1,00-1,80mm) S-80 (0,80-1,20mm) S-401 (0,40-1,00mm) S-20 (0,15 -0,40 mm)

Ceramic beads



Application

Field of application: Cleaning, surface finishing, wet blasting, shot peening

Blasting systems: Centrifugal wheel and compressed air systems

Special features:

Careful cleaning of sensitive surfaces (moulds, tools, motor parts, turbine vanes), shot peening of metal surfaces, surface finishing

Product characteristics

Analysis:

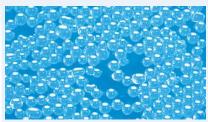
ZrO₂: 60–70%, SiO₂: 28-33%, Al_0: < 10 % Structure: monoclinic zirconcrystal Hardness: HV1.0 approx. 700 ≙ HRC 60-65 **Specific gravity:** approx. 3,85 kg/l Bulk density: approx. 2,30 kg/l Screening specification: factory norm

B20=600-850 μm	B100=125–180 µm
B30= 425–600 μm	B120 = 63 – 125 μm
B40= 250 – 425 μm	B125 = $0 - 125 \mu m$
B60= 125– 250 μm	B205= 0- 63μm

Glass

Natural products

Glass beads BALLOTINI Code: MGL



Application

Field of application: Cleaning, shot peening, surface finishing

Blasting systems:

Injection and compressed air systems **Special features:**

Careful cleaning of sensitive surfaces (moulds, tools, motor parts, turbine vanes), shot peening of non-ferrous metal surfaces, surface finishing of metal and glass workpieces, wet blasting

Product characteristics

Analysis:

SiO,: < 75%, Na,0: < 15%, CaO: < 12%, MgO: < 5%, $K_0: \le 1.50\%$ $Fe_0: \le 0.20\%$, Al_O_: 0.50-2.00 % Hardness: Knoop 5.150 N/mm² = HRC 47 **≙** Mohs 6 Specific gravity: approx. 2.45 kg/l Bulk density: approx. 1.50 kg/l Screening specification: factory norm

Grain classes available

420 – 840 µm	75 – 150 µm
420 – 590 µm	70 – 110 µm
250 – 420 µm	50 – 105 µm
-	
180 – 300 µm	40 – 80 µm
150 – 250 µm	0 – 50 µm
105 – 210 µm	
- 1	

Glass grit



Application

Field of application: Cleaning and tarnishing of a variety of materials

Blasting systems:

Injection and compressed air systems **Special features:**

Universal blasting material e.g. for cleaning diecasting moulds, blasting wood, can be used anywhere where blasting abrasive losses are unavoidable, Sweeping (300-600 µm and finer)

Product characteristics

Analysis:

SiO,: < 70 %, SrO: < 10 %, Na_0: < 10 %, BaO: approx. 10%, $K_0: < 7\%$ Al₂O₂: < 3%, Fe₂O₂: < 0,02 % Hardness: Mohs ca. 6 Specific gravity: approx. 2.50 kg/l Bulk density: approx. 1.50 kg/l Screening specification: factory norm

Grain classes available

400–1400 µm 300–800 µm 300–600 µm 200 – 300 µm 100 – 200 µm 80 – 150 µm

Kernel and shell granulate



Application

Field of application: Surface treatment without removing base material **Blasting systems:** Compressed air systems **Special features:** Careful cleaning of sensitive surfaces

Product characteristics

Natural product:

Moisture content: \leq 9.0 % PH-value: ≤ 4.5 % Hardness: Mohs 2.5 **Specific gravity:** approx. 0.95 kg/l Bulk density: approx. 0.72 kg/l Screening specification: factory norm

Corncob granulate SAPOL Natural product: Moisture content: approx. < 10 %

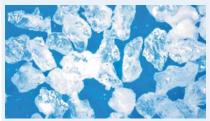
Bulk density: Grain classes:

approx. 0.50 kg/l 1,00– 1,50 mm 0,75 – 1,25 mm 0,40-0,80mm <0,25 mm

1.70 – 2.40 mm	0.80– 1.30 mm
1.30 – 1.70 mm	0.45– 1.00 mm
1.00– 1.70 mm	0.20-0.45 mm

Fused alumina

High-grade corundum White fused alumina Code: WFA



Application Field of application: Cleaning, roughening, tarnishing

Blasting systems: Compressed air systems

Special features:

Blasting applications for which ferrous blasting abrasives are not suitable because of the risk of corrosion and magnetisation, and for extremely hard workpieces, dry and wet blasting methods, Sweeping (F₃₆ and finer)

Product characteristics

Analysis, typical:

 Al_2O_3 : 99.70 %, Na_2O : 0.20 %, Fe_2O_3 : 0.02 %, SiO_2 :0.02 % **Hardness:** Knoop 21.000 N/mm² ≙ Mohs 9

Specific gravity: approx. 3.92 kg/l Bulk density: approx. 1.75 kg/l Screening specification: FEPA

High-grade corundum **Pink fused alumina** Code: PFA



Application Field of application:

Cleaning, roughening, tarnishing

Blasting systems: Compressed air systems

Special features:

Blasting applications for which ferrous blasting abrasives are not suitable because of the risk of corrosion and magnetisation, and for extremely hard workpieces, dry and wet blasting methods, Sweeping (F₃6 and finer)

Product characteristics

Analysis, typical:

Al₂O₃: 99.40 %, Cr₂O₃: 0.30 %, Na₂O: 0.20 %, Fe₂O₃: 0.02 % Hardness: Knoop 20.500 N/mm² [△] Mohs 9 Specific gravity: approx. 3.92 kg/l Bulk density: approx. 1.75 kg/l Screening specification: FEPA

Corundum Brown fused alumina NK I Code: BFA



Application

Field of application: Cleaning, roughening, tarnishing, de-rusting, deburring

Blasting systems: Compressed air systems

Special features: Blasting applications as for highgrade corundum but where a low ferrous content is acceptable, Sweeping (F36 and finer)

Product characteristics

Analysis, typical: $Al_2O_3: 94.50-95.50\%$, $SiO_2: 0.50-0.80\%$, $Fe_2O_3: \le 0.30\%$, $TiO_2: 2.60-3.20\%$, $CaO + MgO: \le 0.30\%$ Hardness: Mohs 9 Specific gravity: approx. 3.96 kg/l Bulk density: approx. 1.75 kg/l Screening specification: FEPA or DIN 8201 part 6

Grain classes available

Macro range (High-grade corundum white, pink / Electro-corundum NK I):

High-grade corundum white / Electro-corundum NK I

 $\begin{array}{l} F \ 12 \ = \ 1400 \ - \ 2000 \ \mu m \ ^* \\ F \ 14 \ = \ 1180 \ - \ 1700 \ \mu m \\ F \ 16 \ = \ 1000 \ - \ 1400 \ \mu m \\ F \ 20 \ = \ 850 \ - \ 1180 \ \mu m \\ F \ 20 \ = \ 850 \ - \ 1180 \ \mu m \\ F \ 30 \ = \ 500 \ - \ 710 \ \mu m \\ F \ 30 \ = \ 500 \ - \ 710 \ \mu m \\ F \ 36 \ = \ 425 \ - \ 600 \ \mu m \\ F \ 40 \ = \ 355 \ - \ 500 \ \mu m \\ F \ 46 \ = \ 300 \ - \ 425 \ \mu m \\ F \ 46 \ = \ 300 \ - \ 425 \ \mu m \\ F \ 54 \ = \ 250 \ - \ 355 \ \mu m \\ \end{array}$

Micro range (High-grade corundum white): F 230 = $34-82 \mu m$ F $400 = 8-32 \mu m$ F 240 = $28-70 \mu m$ F $500 = 5-25 \mu m$ F 280 = $22-59 \mu m$ F $600 = 3-19 \mu m$ F $320 = 16-49 \mu m$ F $800 = 2-14 \mu m$ F $360 = 12-40 \mu m$ F $1000 = 1-10 \mu m$

Metrical range (High-grade corundum white / Electro-corundum NK I):

Electro-corundum NK I): 0,50– 1,00 mm 0,25–0,50 mm 0,12–0,25 mm

Fused alumina

Silicon carbide

Corundum

Brown fused alumina NKII/NKIII Code: BFA



Application

Field of application: Cleaning, roughening, de-rusting, deburring Blasting systems: Compressed air systems Special features: Blasting applications as for highgrade corundum but where a low ferrous content is acceptable

Product characteristics

Analysis, typical: Al₂O₃: 94–96%,SiO2: 1.30%, Fe₂O₃: 1.00%, TiO: 2.40%, CaO+MgO: 0.20% Hardness: Mohs 9 Specific gravity: approx. 3.96 kg/l Bulk density: approx. 1.55 kg/l Screening specification: FEPA

Brown fused alumina NK III Analysis, typical: Al_2O^3 : 39,0%, TiO₂: 0,9%, SiO₂: 0,3%, Fe₂O₃: 0,3%, Fe: 46.0%, SiZ 2,2%, Ti: 2.0%

Fe: 46,0 %, Si: 7,2 %, Ti: 3,0 % Screening specification: 1–2 mm, 0,5–1 mm, 0,25–0,5 mm, 0,12–0,25 mm

Grain classes available

Corundum
Special blasting corundum



Application Field of application: Cleaning, roughening, de-rusting, deburring Blasting systems: Compressed air systems Special features: Blasting applications inevitably involving large losses of blasting abrasive where a low ferrous content is acceptable, Sweeping (F36 and finer)

Product characteristics

Analysis, typical: $Al_2O_3: 80,1\%,$ $TiO_2: 0,7\%,$ $SiO_2: 11,6\%,$ $Fe_2O_3: 0,2\%,$ CaO + MgO: 1,6%, SiC: 5,8%Hardness: Mohs 9 Specific gravity: approx. 3,85 - 3,94 kg/l Bulk density: approx. 1,5 - 1,8 kg/l Screening specification: FEPA Silicon carbide Silicon carbide black Code: SiC



Application

Field of application: Cleaning, roughening Blasting systems: Compressed air systems Special features: Cleaning hardened surfaces

Product characteristics

Analysis, typical: SiC: 98%, Fe_2O_3 : 0.20%, C-frei: 0.15%, Magnetfraktion: 0.10% Hardness: Mohs 9.6 Specific gravity: approx. 3.2 kg/l Bulk density: approx. 1.30 kg/l Screening specification: FEPA

Macro range (Electro-corundum NK II / Special blasting corundum / Silicon carbide):

F 12 = 1400 - 2000 μ m* F 14 = 1180 - 1700 μ m* F 16 = 1000 - 1400 μ m F 20 = 850 - 1180 μ m F 24 = 600 - 850 μ m F 30 = 500 - 710 μ m F 36 = 425 - 600 μ m $F 40 = 355 - 500 \ \mu m$ $F 46 = 300 - 425 \ \mu m$ $F 54 = 250 - 355 \ \mu m$ $F 60 = 212 - 300 \ \mu m$ $F 70 = 180 - 250 \ \mu m$ $F 80 = 150 - 212 \ \mu m$ $F 90 = 125 - 180 \ \mu m$

 $F 100 = 106 - 150 \mu m$ $F 120 = 90 - 125 \mu m$ $F 150 = 63 - 106 \mu m$ $F 180 = 53 - 90 \mu m$ $F 220 = 45 - 75 \mu m$

Plastics - Duroplasts

Duroplast granulate made of melamine resin **MC Blast cleaning media** Code: MC



Application

Field of application:

Cleaning of steel and chromeplated moulds for the rubber and plastics industry, removal of paint and coating on ground vehicles.

Blasting systems: Compressed air systems

Special features:

Low dust generation, no surface

changes, no free silica, non-toxic, antistatic pre-treated, suitable for temperatures up to 400 °C.

Product characteristics

Structure:

Melamine resin Hardness: Mohs 4 ≙ Barcol 64–72 Specific gravity: approx. 1.47–1.50 kg/l Bulk density: approx. 0.77 kg/l Approved under MIL-P-85891A specification

Grain classes available

MC-1	(12/16)	=1.68/ 1.19 mm
MC-1.5	(16/20)	=1.19 / 0.84mm
MC-2	(20/30)	=0.84/0.58 mm
MC-3	(30/40)	=0.58/0.42mm
MC-4	(40/60)	=0.42/0.25 mm
MC-5	(60/100)=0.25/0.15 mm

Duroplast granulate Aminoaldehydic resin **MB Blast cleaning media** Code: MB



Application

Field of application:

Deburring aluminium and zinc die-casting, deburring electronic components, paint removal on powder-coated parts, paint removal on automobile parts, sports boats, accessories and aircraft components.

Blasting systems:

Compressed air and centrifugal wheel systems

Special features:

Low dust generation, lengthens the service life of expensive moulds and tools, deburs aluminium, zinc and magnesium parts without tolerance changes, non-toxic, no free silica

Product characteristics

Structure: Aminoaldehydic resin Hardness: Mohs 3.5 ≙ Barcol 54–62 Specific gravity: approx. 1.47–1.52 kg/l Bulk density: approx. 0.77 kg/l Approved under MIL-P-85891A specification

Grain classes available

MB-1 (12/16) =1.68/ 1.19 mm MB-1.5 (16/20) =1.19 / 0.84mm MB-2 (20/30) =0.84/ 0.58 mm MB-3 (30/40) =0.58/ 0.42 mm MB-4 (40/60) =0.42/ 0.25 mm MB-5 (60/100)=0.25/ 0.15 mm Polyamide cubical / cylindrical **Maxi-Blast PA / PAC** Code: PA / PAC



Application

Field of application: Deburring duroplast parts Blasting systems: Compressed air and centrifugal wheel systems

Special features:

Non-abrasive, dust-free, leaves no residue or marks on shiny surfaces, exact standard size, no blockage of holes and slots.

Product characteristics

Structure: Polyamide 6 Hardness: HRR 100–105 Specific gravity: approx. 1.12–1.14 kg/l Bulk density: approx. 0.68 kg/l

Grain classes available

Plastic - Thermoplasts

Polycarbonate **PC Blast cleaning media** Code: PC



Application

Field of application: Deburring duroplast parts and light metal die-cast parts

Blasting systems:

Compressed air and centrifugal wheel systems

Special features:

High density, slow grain decomposition, shorter blasting times, nonabrasive, dust-free, leaves no residue, exact grain size prevents blockage of holes and slots, no free silica, non-toxic

Product characteristics

Structure: Polycarbonate Hardness: HRM 70–74 Specific gravity: approx. 1.20 kg/l Bulk density: approx. 0.71 kg/l

Polycarbonate Maxi-Blast CG



Application

Field of application: Deburring of rubber formed parts within the cryogenic range

Blasting systems:

Cryogenic deburring systems

Special features:

The non-abrasive cylindrical grain shape achieves excellent deburring results on all rubber formed parts, high density, slow decomposition achieves short deburring times, less nitrogen consumption, patented plastic mixture, usable up to -176°C \triangleq -285°F

Product characteristics

Structure: Polycarbonate Hardness: HRM 70-74 ≙ HRR 120 Specific gravity: approx. 1.20 kg/l Bulk density: approx. 0.74 kg/l

Polycarbonate **Maxi-Blast BT** Code: BT



Application

Field of application: Deburring duroplast parts and light metal die-cast parts Blasting systems:

Compressed air and centrifugal wheel systems

Special features:

High density, slow grain decomposition, shorter blasting times, nonabrasive, leaves no residue, exact grain size prevents blockage of holes and slots, no free silica, non-toxic

Product characteristics

Structure: Polycarbonate Hardness: HRM 70–74 [≙] HRR 120 Specific gravity: approx. 1.20 kg/l Bulk density: approx. 0.74 kg/l

Grain classes available

PC-80= 2.03 x 2.03 mm PC-60= 1.52 x 1.52 mm PC-45= 1.14 x 1.14 mm PC-30= 0.76 x 0.76 mm PC-20= 0.50 x 0.50 mm PC-15= 0.38 x 0.38 mm

Grain classes available

 $CG-80 = 2.03 \times 2.03 \text{ mm}$ $CG-60 = 1.52 \times 1.52 \text{ mm}$ $CG-45 = 1.14 \times 1.14 \text{ mm}$ $CG-38 = 0.97 \times 0.97 \text{ mm}$ $CG-30 = 0.76 \times 0.76 \text{ mm}$ $CG-20 = 0.50 \times 0.50 \text{ mm}$ $CG-15 = 0.38 \times 0.38 \text{ mm}$

Grain classes available

BT-80 = 2.03 x 2.03 mm BT-60 = 1.52 x 1.52 mm BT-45 = 1.14 x 1.14 mm BT-38 = 0.97 x 0.97 mm BT-30 = 0.76 x 0.76 mm BT-20 = 0.50 x 0.50 mm BT-15 = 0.38 x 0.38 mm

Quality doesn't just happen on it's own.



DIAMANT chilled iron shot and grit was already being manufactured at Eisenwerk Würth in 1913.

The founder of the company, Julius Würth, was a pioneer in introducing metallic blasting abrasives in place of quartz sand which was an extreme risk to health.

In 1953, the emphasis in production was shifted to the top quality products VERA steel shot and FILGRA steel cut wire because of developments in blasting techniques.

The range of products has been constantly extended to take into account the advance made by blasting techniques into increasingly new fields of application.

The company's product programme now includes all multi-use blasting abrasives in exceptional quality.

Production

DIAMANT chilled iron shot and grit is produced in a hot-blast cupola furnace and VERA steel shot in modern medium-frequency furnaces.



Quality assurance

Regular chemical analyses of the materials used and the molten steel and iron, as well as continuous tests on the finished material for hardness, service life, intensity, abrasive force and screen precision guarantee a constant high standard of quality for our abrasives.



Supply facilities

Several thousand tons of all types of blasting abrasive stored in warehouses of around 5000 sq.m., the easy road access to our factory and the excellent logistics, ensure that our customers get their deliveries on time.











Our products in use throughout the world Our plant is located at a major junction of Europes motorway and railway networks, also we are close to a waterway, which is leading to the North Sea ports.

This guarantees rapid, reliable delivery.

For decades now, our name has been well-know on the international market for blasting abrasives. Our top quality products, an essential factor in modern surface technology, are exported to destinations throughout the world.



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