

ACCUCAST

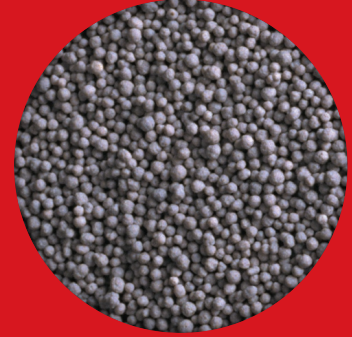
High-performance ceramic casting media

Features

- Chemically inert and does not produce respirable silica dust
- Available in low-density (LD) and intermediate-density (ID)
- Uniform size and shape
- Exceptionally round grains with spherical structure
- High hardness and durability

Benefits

- Improved dimensional accuracy
- Fewer defects
- Faster production cycling times
- Reduced scrap and cleaning
- Reduced media and energy consumption and costs
- Improved QHSE and sustainability



Particle size properties

| Sieve No. | Microns | ID15 | ID25 | ID40 | ID50 | ID60 | ID70 | ID80 | LD10 | LD20 | LD30 | LD40 | LD45 |
|--------------|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 1,180 | 1 | | | | | | | 5 | | | | |
| 18 | 1,000 | 7 | | | | | | | | | | | |
| 20 | 850 | 34 | 5 | | | | | | 94 | 6 | | | |
| 30 | 600 | 54 | 55 | | | | | | 1 | 66 | 1 | | |
| 40 | 425 | 4 | 40 | 19 | | | | | | 28 | 91 | 32 | 1 |
| 50 | 300 | | | 72 | 37 | 22 | | | | | 7 | 45 | 68 |
| 70 | 212 | | | 8 | 45 | 38 | 35 | 1 | | | 1 | 22 | 30 |
| 100 | 150 | | | 1 | 16 | 32 | 43 | 51 | | | | 1 | 1 |
| 140 | 106 | | | | 2 | 8 | 21 | 43 | | | | | |
| 200 | 75 | | | | | | 1 | 5 | | | | | |
| 270 | 53 | | | | | | | | | | | | |
| AFS GFN | | 15 | 25 | 40 | 50 | 58 | 70 | 85 | 10 | 20 | 30 | 40 | 45 |
| Permeability | | 2,189 | 979 | 419 | 222 | 108 | 88 | 64 | 2276 | 985 | 697 | 329 | 297 |

Other sizes available on request, including ACCUCAST FLOUR.

Physical and thermal properties @1100°C

| | ACCUCAST ID | ACCUCAST LD | Zircon | Chromite | Silica |
|---|-------------|-------------|--------|----------|--------|
| Absolute density (g/cc) | 3.27 | 2.71 | 4.65 | 4.51 | 2.65 |
| Loose BD (lb/ft ³) | 113 | 94 | 168 | 163 | 100 |
| Packed BD (lb/ft ³) | 125 | 109 | 189 | 183 | 110 |
| Thermal expansion (PLE) | 0.29 | 0.25 | 0.07 | 0.43 | .87 |
| Coefficient of expansion (1E-6 in/in-°C) | 2.75 | 2.33 | 0.68 | 3.99 | 8.14 |
| Thermal conductivity (W/m-°C) | 0.70 | 0.75 | 0.63 | 0.94 | 1.14 |
| Heat capacity (cal/g-°C) | 0.26 | 0.23 | 0.225 | 0.27 | 0.26 |
| Thermal diffusivity (cm ² /s) | 0.0032 | 0.0046 | 0.0022 | 0.0029 | 0.0060 |
| Heat diffusivity 10 ⁶ (W ² s)/(m ⁴ °C ²) | 1.55 | 1.23 | 1.79 | 3.06 | 2.17 |
| Square root of heat diffusivity (Ws ^{1/2})/(m ² °C) | 1,250 | 1,100 | 1,340 | 1,750 | 1,470 |

Chemical composition (weight %)

| ACCUCAST | Al ₂ O ₃ | SiO ₂ | TiO ₂ | Fe ₂ O ₃ | LOI (%) | Moisture (%) | pH | ADV@pH5 | ADV@pH7 |
|----------|--------------------------------|------------------|------------------|--------------------------------|---------|--------------|------|---------|---------|
| ID | 70-80 | 10-20 | 1-5 | 5-10 | 0.15 | 0.03 | 6.90 | 0.60 | 0.00 |
| LD | 40-50 | 40-50 | 1-5 | 1-5 | 0.02 | 0.08 | 6.90 | -1.30 | -1.70 |

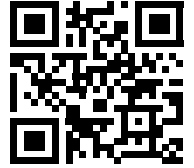
ACCUCAST ceramic media DOES NOT produce respirable silica dust.

Talk to CARBO to find out how we can help you enhance your production.

+1 800 551 3247
carboindustrial.com



Proudly Made in the USA



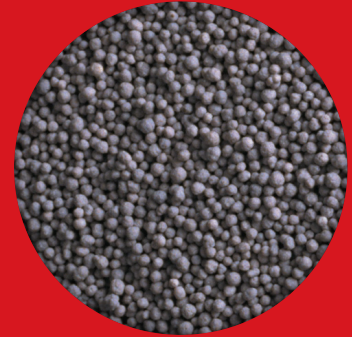
Medios cerámicos de alto rendimiento para fundición

Características

- Químicamente inerte
- No genera polvos respirables de sílice
- Disponible en baja densidad (LD) y densidad intermedia (ID)
- Tamaño y forma uniforme
- Granos redondos de estructura esférica
- Alta dureza y durabilidad

Beneficios

- Mejora precisión dimensional
- Reduce defectos
- Ciclos de producción más rápidos
- Reduce reprocesos y costos de limpieza
- Reduce costos de energía y consumo del medio
- Promueve calidad, salud, seguridad y un medio ambiente sustentable



Propiedades del tamaño de partícula

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| 140 | 106 | | | | 2 | 8 | 21 | 43 | | | | | |
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| 270 | 53 | | | | | | | | | | | | |
| AFS GFN | | 15 | 25 | 40 | 50 | 58 | 70 | 85 | 10 | 20 | 30 | 40 | 45 |
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Propiedades físicas y termicas @1100 °C

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Composición química (weight %)

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ACCUCAST ceramic media NO PRODUCE POLVO de sílice respirable.

Hable con CARBO para saber como podemos ayudarlo a mejorar su produccion

+1 800 551 3247 | carboindustrial.com
customerservice@carboceramics.com

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