



Remet
Datasheet
260

SHELL ROOM -
REFRACTORY SANDS &
FLOURS

REMASIL

Remasil is a range of Aluminosilicate products from Remet, used to produce investment casting shells of excellent refractoriness and strength

Offered in three systems (Remasil 48, 50 and 60), all calcined to a constant weight and ground to a specific grade of grains and flours. These produce investment casting shells of excellent refractory hardness and high temperature stability, at an economical rate. The Remasil range provides increased strength when compared to fused silica systems.

In the case of stucco grains, the custom grinding of Remasil results in a more uniform product which has a narrow range of particle sizes and a minimum amount of fines (dust). Reduced fines improve both permeability and intercoat adhesion. By offering two separate cuts of Remasil, the foundryman can choose the specific grade that most suits their requirements.

Remasil 48

- Good refractoriness and high temperature stability
- Easy knockout

Grades available:
RG20 RG25, RG30, RG40, RG50, RG70, RP200 & RP325CG

Remasil 50

- Increased hot strength
- Robust and resilient
- Easy knockout

Grades available:
16-30, 30-60 & 200

Remasil 60

- Higher alumina content provides for even greater refractoriness and stability at high temperatures
- Excellent for casting larger parts
- Performs exceptionally well when dimensional stability is crucial

Grades available:
RG20, RG25, RG30, RG40, RG50, RG70, RG100, RP200 & RP325CG

REMET UK LTD
44 Riverside II, Sir Thomas Longley Road
Rochester, Kent ME2 4DP, UK

T: +44 (0) 1634 226 240
F: +44 (0) 1634 226 241
E: CustomerService@remetuk.com

YOUR CONCEPT TO CASTING PARTNER



Typical Properties

	Remasil 48	Remasil 50	Remasil 60
Chemical			
Al ₂ O ₂	46.8% (46.0 min.)	46.6% (46.0 min.)	58.6% (58.0 min.)
SiO ₂	50.0%	51.2%	37.8%
TiO ₂	1.9%	0.6%	2.21%
Fe ₂ O ₃	0.95% (1.0 max.)	0.8% (1.0% max.)	1.13% (1.35 max.)
CaO	0.04%	-	0.06%
MgO	0.08%	-	0.07%
Na ₂ O	0.09%	0.11%	0.07%
K ₂ O	0.09%	0.11%	0.04%
P ₂ O ₅	0.09%	-	0.10%
Physical			
Apparent Specific Gravity	2.62	-	2.80 (2.75 min.)
Average Bulk Density (kg/m ³)	1554	-	1746
PCE	35 (1785°C)	-	37 (1820°C)
Coefficient of Thermal Expansion in 15-1016°C (mm/°C)	9.5 x 10 ⁻⁶	-	8.1 x 10 ⁻⁶
Porosity	3.70	-	3.20
Mineralogy			
Mullite	65%	55% min.	77%
Glass	20%	-	23%
Cristoblite	15%	-	Trace

Typical Particle Size Distribution - Remasil 48 & 60

Mesh	RG20	RG25	RG30	RG40	RG50	RG70	RG100	RP200	RP325CG
+14	Tr								
+16	16	<1	Tr	Tr					
+20	69	48	24	14	Tr				
+30	14	38	50	40	6				
+40	1	12	23	39	33	Tr			
+50		1	2	6	51	20			
+60						34			
+70				1	9	26	Tr		
+80						14			
+100	Tr	Tr	<1	Tr	1	5		Tr	Tr
+140							92		
+200						1	8	25	
+325									25
Pan	Tr	Tr	Tr	Tr	Tr	Tr	Tr	75	75

YOUR CONCEPT TO CASTING PARTNER