

Industrial Materials



Macka's Glass Grade Sand suitable for Foundries

Sand casting is an effective method of creating complex shapes at low cost. Sand for foundry applications needs to be able to withstand moulding temperatures while maintaining its shape and integrity. The Macka's foundry sand is a high silica content material that is ideal. Without coarse grains nor silt, it minimizes defects and maximises mould permeability.

Macka's Glass Grade/Foundry Sand				
Typical Material Properties				
Method	Property		Specification	Comments
	Detail	Result		
	Sieve (mm)	Cumulative% Passing		
AS1141.11.1	1.18 mm	100	No oversize grains in a 10kg	sample.
	0.6 mm	100	>99%	
	0.425 mm	91		
	0.3 mm	49		
	0.25mm	13		
	0.15 mm	1		
	0.075mm	0	<1%	
XRF Analysis- ALS Chemex- ME-XRF26 method	SiO ₂	98.87%	>98%	High Silica content sand
	Al ₂ O ₃	0.46%	<0.6% for flat glass	
	Fe ₂ O ₃	0.15%	<0.2% for coloured glass	
	K ₂ O	0.15%	<1% preferred for sum of other oxides.	
	TiO ₂	0.14%		
	Na ₂ O	0.04%		
	CaO	0.01%		
	MgO	0.01%		
	SO ₃	0.01%		
	Loss on Ignition	0.16%		
	Sand Grain Shape	Sub-rounded to rounded		
AS1289.4.3.1	pH	7.6	-	Neutral

Please Note: The information provided should be used as a guide only. For further details or for design and application support, please contact us.

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