

## Civil Engineering & Construction Materials



### Macka's Foundry Sand

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 clean high silica content material that is ideal for this application.

Macka's <i>FOUNDRY SAND</i>				
Material Properties				
Method	Property		Specification	Comments
	Detail	Result		
	Sieve (mm)	% Pass		
AS1141.11.1 Grading	1.18 mm	100		
	0.6 mm	99		
	0.425 mm	85		
	0.3 mm	33		
	0.15 mm	1		
	0.075mm	0		
XRF Analysis- ALS Chemex- ME-XRF26 method	SiO <sub>2</sub>	98.37%	>98% preferred	High Silica content sand
	Al <sub>2</sub> O <sub>3</sub>	0.46%	<1% preferred	Good
	Fe <sub>2</sub> O <sub>3</sub>	0.15%	<1% preferred	Good
	K <sub>2</sub> O	0.15%	<1% preferred for sum of other oxides.	Sum = approx. 0.36% <<1% specification- Good
	TiO <sub>2</sub>	0.14%		
	Na <sub>2</sub> O	0.04%		
	CaO	0.01%		
	MgO	0.01%		
	SO <sub>3</sub>	0.01%		
		Loss on Ignition	0.19	
	Sand Grain Shape	Sub-rounded to rounded	Sand Grain Shape is reported	Well sorted fine clean quartz sand
AS1289.4.3.1	pH	7.6	-	Neutral

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

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