

CERAMIC POUR CUPS



Quality ceramic pour cups are an important part of the ceramic shell tree assembly. A well-manufactured cup can reduce the risk of casting defects resulting from cup erosion during a metal pour. The better the surface quality of the pour cup used, the less opportunity for cup erosion or spalling.

Schaefer Industries, Inc. ceramic pour cups provide the best possible quality to the investment caster. Every piece produced is 100% visually inspected at various points

throughout the manufacturing process. Parts are rejected for the slightest flaw to ensure defect-free performance on the foundry floor.

Ceramic pour cups are sufficiently dense to resist the thermal shock that occurs when molten metal meets ceramic. Again, reducing the potential failure during a pour.

Ceramic pour cups are composed of clay-bonded mullite with a very low tramp element content to satisfy stringent aerospace specifications.

Component	Weight %
Alumina (Al ₂ O ₃)	50.0
Silica (SiO ₂)	47.0
Ferric Oxide (Fe ₂ O ₃)	0.6
Titania (TiO ₂)	1.0
Phosphorous Pentoxide (P ₂ O ₅)	0.1
Sodium Oxide (Na ₂ O)	0.1
Calcium Oxide (CaO)	0.2
Potassium Oxide (K ₂ O)	0.3
Magnesium Oxide (MgO)	0.2
Other	0.5

Other products are also available, including: alumina shapes and basins, rings, collars, cover plates, vent plugs and castable shapes.



RANSOM & RANDOLPH

3535 Briarfield Boulevard | Maumee, OH 43537 USA
800.800.7496 | 419.865.9497 | 419.865.9997 (FAX) | www.ransom-randolph.com



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Standard Ceramic Pour Cup Options

Part #	Neck Inner Diameter	Neck Outer Diameter	Large Inside Diameter	Large Outside Diameter	Height	Angle	Filter Diameter
SII-2FLE	1.25	1.75	3.00	3.75	2.50	37.00	
SII-1.375	1.38	1.90	3.08	3.50	3.00		
SII-2.3R0	2.05	2.68	6.50	7.13	2.75	40.00	
SII-2.6F	2.60	3.20	4.00	5.25	1.75	23.00	
SII2.75E	2.75	3.25	4.70	5.40	3.75	20.00	
SII-3	2.00	2.65	4.00	4.65	2.80		
SII-3F	2.00	2.65	4.00	5.25	2.80		
SII-3FIT	2.00	2.65	4.00	4.65	2.80		2.41
SII-3FL	2.00	2.50	4.20	5.00	3.00	20/30	
SII-3.5FIT	1.76	2.50	4.20	5.05	3.50		2.25
SII-3.75	2.50	3.13	4.63	5.25	3.00	20.00	
SII-3x3	3.00	3.50	4.00	4.50	3.00	10.00	
SII-3.8F	3.00	3.80	4.75	5.50	3.80	14.00	
SII-4	2.00	2.50	4.60	5.35	4.00		
SII-4FIT	2.00	2.65	4.60	5.35	4.00		2.50
SII-5F	2.40	2.92	4.60	5.90	4.25		
SII-6.3F	3.00	3.52	5.25	6.15	3.10		
SII-7.3	3.00	3.50	6.00	6.50	5.40		
SII-8FR*	2.50	3.13	6.00	7.00	4.25		

F = Flange

FL = Flare

FIT = Space for straight sided filter

*Anti-swirl ribs optional

Custom designed ceramic pour cups are also available. If you require a special design, contact your R&R Regional Manager or Customer Service Representative to request a quotation.

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