

## SCP is unrivalled in developing and improving our investment powders to meet the demands of the developing world of direct casting 3D printed resin or wax patterns.

3D printing is fast moving in terms of technology, resin types and the print demands, SCP are committed to continually developing our investment powders to maintain the industry's needs.

Metacast has been extensively tried & tested in some of the most renown factories throughout the world, to offer continued improvement on direct casting of 3D printed resin or wax models, from all types of resin and 3D printing manufacturers for castings far more superior than just optimal results.

**Evolving** – what makes Metacast significantly better than other manufacturers of investment powder is the ability to fast fire a single flask, within 6 hours from mixing the investment powder to obtaining a clean smooth surface casting. This has also vastly improved an already outstanding clean off after casting.

- Fast Fire burnout cycle
- High temperature burnout resistance
- Consistently smooth surfaces
- Easy Clean Off
- Delicate details, replicated time and time again.



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## MÉTACAST INVESTMENT POWDER

TECHNICAL	Powder / Water Ratio	100/38
DATA	Working Time @ 25°C Slurry Temp	8-9 min.
	Gloss Off Time @ 25°C Slurry Temp	11 - 13 min.
	Thermal Expansion At 750°C	1.2%
BURNOUT CYCLE	Standard burnout Typical resin burnout	
	v 700	
	650°C Casting Temp	1110 3
	a 400	1290 at 1290 at 1290 at 1290 at 1290 at 1290 at 1190 at 1110 a
		570 หื 
	100	210 4hrs min
	0 1 2 3 4 5 6 7 8 9 10 11	4nrs min 12 13 14 15 16 17 18 19
MIXING	Conventional Mixing Vacuum Mixing	Water/Powder Ratio 38:100
INSTRUCTIONS	Weigh powder & measure water  Weigh powder & measure water  Weigh powder & measure water	Conventional Mixing Time (Mins)
		Add Powder To Water -
1000		Hand Mix 1
	Always add powder to water     Always add powder to water	Machine Mix 2 Vacuum Bowl 2
and the second		Pour Flasks 1
COSTAN AREA		Vacuum Flasks 2
A STATISTICS AND A STATISTICS	Mix by hand -      Machine mix -      2 mins     Vacuum mix -	Total Mixing Time 8
	4 min 2 mins 2 mins	Water/Powder Ratio 38:100
Construction of the second		Vacuum Mixing Time (Mins)
Constant Constants		Add Powder To Water -
	S Vacuum bowl - C Pour flasks - 2 mins 1 min	Mix Under Vacuum 4
APP STATISTA	S Vacuum flasks - 2 min S Allow to stand -	Pour Flasks 2
		Hold Under Vacuum 2
		Total Mixing Time 8
	7 Vacuum flasks - 🚯 Allow to stand - 🚺 👪 👪 😽 😽	

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