

DEITY CAST

Investment Powder



AIICP DEITY CAST has been formulated to deal with the most demanding gold castings, producing excellent casting results. DEITY CAST has optimised thermal expansions, permeability and particle size distribution to enable it to produce the highest quality castings and reproduction of master models.

AIICP DEITY CAST has the highest content of un-mineralised cristobalite in the GSP range and hence enhances castings results with improved surface finish.

DEITY CAST is suitable for high carat gold with excellent surface finish, stronger mould and easy cleans off resulting in reduced metal loss and less polishing time.



Technical Information

Do not remove flasks from furnace to cast until they have been held at casting temperature for a minimum of 1 hour. If held for less than 1 hour, the core of the flasks will be at a much higher temperature than the digital temperature display states, and may result in metal mould reaction.

- Use de-ionised water
- Weigh water and powder
- Slurry temperature 21°C
- Leave for 90 min to stand before burnout cycle

WATER TO POWDER RATIO

MACHINE VACUUM MIXING	38:100
HAND MIX THEN VACUUM	40:100

MACHINE VACUUM MIXING	Min.
Weigh out water and powder	0
Add powder to water	0
Mix under vacuum	5
Pour flasks	2
Vacuum flasks	1
Total time take	8

HAND MIX THEN VACUUM	Min.
Weigh out water and powder	0
Add powder to water and mix	4
Vacuum mixer bowl	1
Pour flasks	1
Vacuum flasks	2
Total time taken	8

