



**UNITEC CERAMICS
LIMITED**

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TYPE: **6% Yttria Stabilised Zirconia**
Standard Purity
Nominal Size -5 um
Spray Dried

CERTIFICATE OF ANALYSIS

PRODUCT CODE: **PYT06.0-005SD**

DATE 28-Apr-99

BATCH NO. 394

CHEMISTRY - XRF

Oxide	Specification	Measured
	wt%	wt%
Y2O3	5.9-6.3	6.16
SiO2	0.15 Max	0.05
Al2O3	1.00 Max	0.80
Fe2O3	0.10 Max	0.02
TiO2	0.25 Max	0.09
ZrO2+HfO2	92.1 Min	92.50

PARTICLE SIZE DISTRIBUTION **MALVERN MASTERSIZER**

	Specification	Measured
	um	um
D80	1.50-2.14	1.87
D50	0.93-1.22	1.01
D20	0.56-0.71	0.61

PARTICLE SIZE DISTRIBUTION **% RETAINED ON SIEVE**

Sieve Mesh	Specification	Measured
60 ASTM	5% Max	1
100	35% Max	26.6
270	85% Min	91.2
-325	10% Max	5

PHYSICAL PROPERTIES

Powder Flow	Specification	Measured
Time/s	<65	58.1

J Matyus
Production Manager