



**UNITEC CERAMICS
LIMITED**

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TYPE:	5% Yttria Stabilised Zirconia High Purity Nominal Size -2 um Spray Dried
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CERTIFICATE OF ANALYSIS

PRODUCT CODE: PYT05.0-002HD

DATE 19-Mar-02

BATCH NO. TM81

CHEMISTRY - XRF

Oxide	Specification wt%	Measured wt%
Y2O3	5.0-5.4	5.14
SiO2	0.06 Max	0.05
Al2O3	0.65 Max	0.36
Fe2O3	0.06 Max	0.03
TiO2	0.20 Max	0.10
ZrO2+HfO2	93.1 Min	94.02

PARTICLE SIZE DISTRIBUTION MALVERN MASTERSIZER

	Specification um	Measured um
D80	0.90-1.20	0.99
D50	0.55-0.75	0.62
D20	0.35-0.50	0.40

PARTICLE SIZE DISTRIBUTION % RETAINED ON SIEVE

Sieve Mesh	Measured
60 ASTM	1.2
100	11.6
270	62.4
-325	28.4

PHYSICAL PROPERTIES

Powder Flow	Measured
Time/s	72

J Matyus
Production Manager