

# 3M Colorquartz™ Ceramic-Coated Crystals

## Product Data Sheet

3M Colorquartz Ceramic-Coated Crystals are coated quartz particles designed for use in a variety of architectural applications including swimming pool finishes and epoxy seamless flooring. Each crystal has been ceramic coated by a 3M process that bonds inorganic pigments to the quartz, creating color that has been proven to last in harsh environments. The following technical information should be considered representative or typical only.

Typical Physical Properties and Product Performance Characteristics		
Property	Measuring Standards & Conditions	Results
Hardness	Moh's Mineral Scale	6.5 - 7
Bulk Density S-Grade	ASTM C 29	104 - 108 lb./ft <sup>3</sup> (packed)
Bulk Density T-Grade	ASTM C 29	94 - 98 lb./ft <sup>3</sup> (packed)
Moisture Content	ASTM C 566	Does not exceed 0.5%
Color	TM-ALL-PROD-012, CieLab, D65, 10° Observer	Controlled to Standard

Chemical Resistance Data **Liquid immersion was for 18 hours					
Acid Resistance	Concentration(%)	Reaction	Alkaline Resistance	Concentration (%)	Reaction
Nitric Acid	70	None	Trisodium Phosphate	40	None
Hydrochloric Acid	37	None	Sodium Carbonate	40	None
Acetic Acid	100	None	Ammonium Hydroxide	28	None
Sulfuric Acid	96	None	Industrial Detergent	1 part to 2 parts water	None
Chromic Acid	82	None			
Aluminum Sulfate (90 hrs immersion)	25	None			
Trichloro-s-triazetrione	Saturated	None			

### AVAILABLE IN TWO GRADE SIZES AND A WIDE RANGE OF COLORS

S-Grade			Colors Available		
Sieve specifications	*Typical, not specified				
Method	U.S. Sieve % Retained				
ASTM D 451	20	0-2	2063 Red	4013 Brown	7043 Grey
	30	7-14*	2163 Plum	5013 Black	7133 Smoke
	40	46-73*	2233 Coral Rose	6023 Tan	8043 Blue
	50	15-35*	3033 Green	6073 Buff	9073 White
	70	0-6*	3143 Cayman Green	6233 Peach	
	-70	0-1			

T-Grade			Colors Available		
Sieve specifications					
Method	U.S. Sieve % Retained				
ASTM D 451	12	0-5	2065 Red	5015 Black	9075 White
	-40	0-2	3145 Cayman Green	8045 Blue	

For additional health and safety information see the Material Safety Data Sheet.

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