

# ZIROX CS® SERIES STABILIZED ZIRCONIUM OXIDES



TAM Ceramics LLC  
4511 Hyde Park Blvd.  
Niagara Falls, NY 14305

Tel: 716-278-9403  
E-mail: [Customer.Service@tamceramics.net](mailto:Customer.Service@tamceramics.net)  
Web Site: [www.tamceramics.net](http://www.tamceramics.net)

TAM's stabilized zirconias are fused blends of Zirconium Oxide and approximately 4% Calcium Oxide. This gives products with about 75% cubic zirconia plus 25% monoclinic zirconia.

Stabilized zirconia is used for bulk insulation in furnaces and heaters, in refractory compositions, as a setter sand and for other applications requiring an inert high melting temperature material, such as investment casting. Stabilized zirconia is also employed as a grinding material and as an engineering ceramic due to its increased hardness and high thermal shock resistance.

Standard TAM stabilized zirconia products are:

Product No:	
1014020	ZIROX CS 30 X Fines
1014006	ZIROX CS -325 Mesh
1014012	ZIROX CS -30 +50
1014014	ZIROX CS -50 +100
1014015	ZIROX CS -100 X Fine

Alternate sizes available

Typical chemical analysis of TAM Stabilized ZrO<sub>2</sub> is:

SiO <sub>2</sub>	0.2%
Al <sub>2</sub> O <sub>3</sub>	0.3%
Fe <sub>2</sub> O <sub>3</sub>	0.06%
TiO <sub>2</sub>	0.2%

## TYPICAL SIZE DISTRIBUTION

SCREEN SIZE	1014012 -30 +50	1014014 -50 +100	1014015 -100 x Fine	1014020 -30 x Fine	1014006 -325 Mesh
-14 + 20	Trace				
-20 +30	1%			9%	
-30 + 50	95%	5%		20%	
-50 + 60	5%	15%		20%	
-60 + 80		65%	Trace	15%	
-80 + 100		15%	1%	12%	
-100 + 200		5%	60%		
-200 + 325			25%		
-325			10%		99%
+325					1%
-20 μM					75%
-10 μM					30%
-1 μM					5%

NOTE: The statements made herein are based on our research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made and the products discussed are sold without warranty, expressed or implied, and upon the condition that purchasers shall make their own tests to determine the suitability of such products for their particular uses. Likewise statements made concerning the possible uses of these products are not intended as recommendations to use these products in infringement of any patent.