

MILLED ZIRCON

ZIRCONIUM SILICATE



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TAM produces a variety of milled Zircons to meet the demands of our customers. These products are made to different particle size distributions in order to fulfill the customer's needs. Milled Zircons are used in frits, as a component in glass compositions, in refractory compositions and in the investment casting industry.

Standard TAM Milled Zircon Products:

Product No:	
1014097	G Zircon Milled Coarse
1027645	G Zircon Milled Fine
1303571	Sand A
1014080	TAM Zircon Milled Fine
1014091	Flour N Fine
1014096	Flour N Coarse
1303567	Flour NEC

SOLUBILITY AND REACTIVITY

- Insoluble in water, dilute acids and hot concentrated sulfuric acid
- Slightly soluble in hydrofluoric acid
- Reacts with hot concentrated alkali solutions
- Does not react with cold dilute alkali solutions

TYPICAL CHEMISTRY

Product	CALCINED				UNCALCINED		
	G Zircon Milled Coarse	G Zircon Milled Fine	Sand A	TAM Zircon Milled Fine	Flour N Fine	Flour N Coarse	Flour NEC
Product Number	1014097	1027645	1303571	1014080	1014091	1014096	1303567
Chemistry							
Zircon	98.7	98.7	>98.5	97.5	>98.5	>98.5	>98.5
ZrO ₂ + HfO ₂	66.3	66.3	66.3	65.5	—	—	—
SiO ₂	32.9	32.9	32.6	33.8	—	—	—
Al ₂ O ₃	0.4	0.4	0.4	0.3	0.2	0.5	0.5
TiO ₂	0.1	0.1	0.1	0.1	0.15	0.15	0.15
P ₂ O ₅	.1	.1	.12	.2	—	—	—

TYPICAL PHYSICAL PROPERTIES

PRODUCT	CALCINED				UNCALCINED		
	G Zircon Milled Coarse	G Zircon Milled Fine	Sand A	TAM Zircon Milled Fine	Flour N Fine	Flour N Coarse	Flour NEC
Product Number	1014097	1027645	1303571	1014080	1014091	1014096	1303567
Physicals							
+70	—	—	0.82%	—	—	—	—
+100	—	—	14.4%	—	—	—	—
+140	—	—	32.6%	—	—	—	—
+200	0.3%	0.1%	26.9%	<0.01%	0.01	0.2	3
+325	5.3%	0.6%	—	0.03	1	5	16
D50 (µm)	12.8	8.9	—	3.9	—	—	—
Surface Area (m ² /g)	1.2	1.4	—	2.45	—	—	—
pH	6.6	6.5	7.1	—	—	—	—

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.