

ZIRCONIUM

(Granular or powdered)

MIL-Z-399D

1 October 1971

Superseding

MIL-Z-399C

19 February 1969

Chemical Requirements

CHOMITOGI REGIGIES								
Requirement	Type	Type II						
	I	Class 1	Class 2	Class 3				
Total zirconium, %	96.0	94.0	95.0	95.0				
min		X May						
Calcium, % max	0.05	0.10	0.05	0.05				
Iron, % max	0.30	0.20	0.03	0.05				
Aluminum, % max	0.10	0.30	0.15	0.10				
Hydrogen, % max	0.20	0.20	0.20					
Chloride (asCl), %	0.03							
max	2							
Silicon, % max	0.10		1					
Tin, % max	0.75		-					
Ignition gain,		30.2 -	30.2 -	30.2 -				
percent		33.0	33.0	33.0				

Particle size requirements for type I zirconium

Sieve	Class 1	Class 2	Class 3
(percent by			
weight)			
Thru 20 mesh	99.0 min		
Thru 60 mesh	5 max		
Thru 80 mesh		100	
Thru 100 mesh		98 min	
Thru 170 mesh			100
Thru 200 mesh		50 max	98 min
Thru 325 mesh		25 max	
Sub-sieve			
<20 microns			10.0 max
<10 microns		2.0 max	

Information presented herein is believed to be accurate and reliable but is not intended to meet any specification and does not imply any guarantee or warranty by Atlantic Equipment Engineers. For more information and assistance, please call (201) 384-5606.

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Particle size requirements for type II zirconium

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Sieve	Class 1	Class 2	Class 3
(percent by weight)			
Thru 120 mesh	100	100	99.5 min
Thru 200 mesh		50 max	98 min
Thru buckbee mears 26 sieve (20	99 min	99 min	
microns)			
Sub-sieve	/5/		
<9 microns	85 min	85 min	
3 microns	70-90	70-90	
0.75 microns	12-30	12-30	
Average Particle Size	1.5 -	1.7 -	2.0 -
	3.5	2.3	4.0

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