

ZIRCON CONCENTRATE

Thunderbird Project



Zircon Concentrate

Sheffield has a combination of options in terms of both product and specifications to offer the market. Currently, the preferred approach is to offer a ZrO₂ rich (~47%) concentrate for further process upgrading by the customer. This concentrate is a blend produced by blending the two major side streams from the zircon processing circuit. In addition to the ZrO₂ content, the zircon concentrate will have ~20% TiO₂ within the concentrate. Sheffield can offer alternate options in terms of quality and can adapt the material to meet customer requirements.

It is expected that the zircon concentrate material will be delivered via bulk shipments at the required customer location.

Composition	Units	Typical	Range	
			Low	High
ZrO ₂ +HfO ₂	%	43.7	43	48
TiO ₂	%	20.1	17	22
SiO ₂	%	23.3	22	26
Al ₂ O ₃	%	1.7	1.5	2.0
Fe ₂ O ₃	%	0.9	0.5	0.9
U+Th	ppm	1,568	1,500	1,600

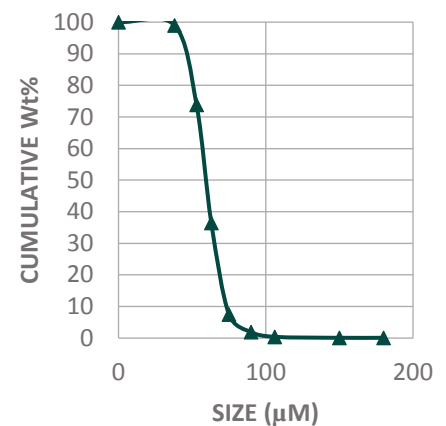


Table 1: Zircon Concentrate product specifications and grain size.

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