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APPROVED

Managing Director

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PASSPORT OF FINISHED PRODUCT

Zinc Concentrate

December 2022

Product characteristics

1. Product name: flotation zinc concentrate as per GOST R 54922-2012. Specifications for concentrate are provided in Table 1.

Table 1 – Specifications for zinc concentrate quality as per GOST R 54922-2012

Concentrate grade	Weight fraction, %						
	Zn, minimum	In, minimum	Admixtures, maximum				
			Fe	SiO ₂	Cu	As	K+Na
KTs-2	53.0	Not regulated	7.0	3.0	1.5	0.1	0.08

Zinc concentrate chemical composition is given in Table 2.

Table 2 – Zinc concentrate chemical composition

Element	UoM	Content	Element	UoM	Content
Zn	%	51,27-53,07	Y	ppm	≤10
Pb	%	1,17-1,52	SiO ₂	%	0,224-0,380
Cd	%	0,1014-0,1180	Al	%	0,02-0,05
Ag	g/t	75,00-122,00	Ni	%	0,005-≤0,01
Au	g/t	≤0,03-0,06	Ba	ppm	60-180
S _{total}	%	30,28-936,1	Be	ppm	0,09-≤5,00
S ²⁻	%	26,6-32,1	Ca	%	0,35-0,44
C _{total}	%	0,18-0,20	Cr	%	≤0,001-0,003
C _{org}	%	0,12-0,14	Zr	ppm	18
As	%	0,17-0,21	Co	%	0,0006-≤0,0100
P	%	0,007-≤0,010	Cu	%	0,180-0,359
Sb	%	0,003-≤0,01	Fe	%	7,97-10,79
Sc	ppm	≤0,01	K	%	≤0,01-0,02
Sn	ppm	≤0,01-1,89	La	ppm	≤0,01
Sr	ppm	≤0,01-19,09	Li	ppm	≤0,01
Ti	%	≤0,01-0,02	Mg	%	0,04-0,06
V	ppm	≤0,01-8,46	Mn	%	0,03-0,047
W	ppm	≤0,01-11,04	Mo	ppm	≤0,01-0,90
Al ₂ O ₃	%	0,01-0,06	Nb	ppm	≤10
CaO	%	0,45-0,60	P ₂ O ₅	%	≤0,01
Cr ₂ O ₃	%	≤0,01	MnO	%	0,050-0,058
Fe ₂ O ₃	%	8,76-12,31	Na ₂ O	%	0,006-0,030
K ₂ O	%	≤0,01-0,03	TiO ₂	%	0,02-0,087
MgO	%	0,06-0,09	Sr	ppm	10-19,09
Hg	%	0,0014-0,0020	F	%	0,04-0,011
Bi	%	0,0012-≤0,0100	Cl	%	0,024
TI	%	0,0022	-	-	-

3. Zinc concentrate main parameters are given in Table 3.

Table 3 – Zinc concentrate main parameters

Parameter description	Characteristic
Physical state	Fine product obtained as a result of sulphide ore flotation concentration
Mineral composition	Sulphide product with a predominant content of sphalerite (79 %) and pyrite (15 %), subordinate quantities include 2 % of galena
Particle size distribution PM, μm	13
Specific density, t/m^3	4.1 /
Moisture content (max.), %	15

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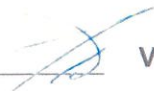
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AGREED BY

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