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Technical Specifications and Chemical Analysis of Glossy Copper Slag by Pishgam Sayandeh Pars Company

According to the reference test standard: **ASTM E1621-21**

The result of the chemical analysis using the XRF device, based on the weight percentage of constituent elements, conducted by Razi Metallurgical Research Center under tracking number 1-7718, is as follows:

Oxide	Weight %	Oxide	Weight %	Oxide	Weight %
Fe ₂ O ₃	55.74%	SiO ₂	5.36%	Al ₂ O ₃	32.34%
MgO	1.02%	Na ₂ O	0.71%	TiO ₂	0.39%
CaO	0.82%	K ₂ O	1.12%	SO ₃	0.39%
CuO	0.74%	ZnO	1.16%	MoO ₃	0.21%
L.O.I*	0.00%	-	-	-	-

Physical Properties of Glassy-Phase Copper Slag

Exam name	Weight %	Oxide	Weight %
Conductivity of Aqueous Extract	1000 >	ISO 11127-6(2022)	116.6 ms/cm
Moisture	0.5 >	ISO 11127-5(2020)	0.1 >
density	2.5 <	ASTM C 128-2022	g/cm3 3.46+-
Indicating Oil	Null	ASTM D 7393 2016 (Reapproved 2020)	Null
Hardness	6 <	BS EN ISO 11127-4 (2012)	6 Mohs

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