



Sossego Concentrates

Sossego Concentrates are a clean product, with high liquidity due to its typical spec characteristics, including Cu/S/Fe ratio.

- Clean concentrate, with low amounts of deleterious elements.
- Typical Cu percentage 29% (26–34% range).
- Usual level of 6g/t of Au and 18g/t of Ag.
- Sulphur at 34% also acts as a reduction of cost for heating in the smelter furnace.
- Produced in compliance with ISO 9001 and ISO 14001.

Typical Analysis

	Typical	Range		Typical	Range
Cu	29%	26–34%	As	10 ppm	<100 ppm
Au	6 g/t	3–10 g/t	Mo	100 ppm	<300 ppm
Ag	18 g/t	5–30 g/t	Sb	50 ppm	<200 ppm
Fe	29%	26–33%	Se	50 ppm	<150 ppm
S	34%	29–37%	Bi	<50 ppm	<50 ppm
SiO₂	4%	<7.0%	Te	1 ppm	<10 ppm
MgO	1%	<2.0%	F	255 ppm	<300 ppm
CaO	1.5%	<4.0%	Cl	600 ppm	<1,000 ppm
Al₂O₃	0.5%	<1.5%	Hg	<1 ppm	<3 ppm
Ni	0.25%	<0.40%	Pb	60 ppm	<500 ppm
Co	0.07%	<0.10%	Zn	100 ppm	<300 ppm
			Cd	10 ppm	<150 ppm

Vale’s Sossego Concentrates are produced in the mineral-rich region of Pará, Brazil.

For more information visit vale.com or contact your regional sales representative.



Carbon intensity is 1.8 t CO₂e/t Cu, including scopes 1, 2, and 3 (upstream) emissions as of the most recent assessment year (2023)¹. Carbon intensity is reassessed on a regular basis.

Low Scope 2 emissions due to hydroelectric power and relatively high grade copper.

Photo: Sossego rock.

Disclaimer: The product descriptions and specifications contained in this document are made in accordance with our analyses and the methods used to produce Vale’s copper products. While these descriptions and specifications are reflective of normal production lots, rather than each individual cargo, such descriptions and specifications shall in no event be deemed or interpreted as any representation, warranty or commitment by Vale in connection with Vale’s copper products quality. Vale’s copper products quality shall be determined only in accordance with the corresponding contract terms for each transaction agreed between Vale and Vale’s customer and the quality related certificate issued under such contract.

¹Independent third-party limited assurance to the general principles of ISO 14064-3 has been provided by Intertek Health Sciences Inc. Emissions allocated by economic value.

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HS Code

- 26030090 – Copper ore and concentrates

Form

- Industry-standard copper concentrates
- Moisture/humidity level: 8.5%

Logistics

Truck transport from Sossego operational area to Parauapebas Terminal; Railway to Itaqui Port in Maranhão, Brazil.

- Voyage to Europe: ~4 weeks
- Voyage to China: ~7 weeks