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APPROVED

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# PASSPORT OF FINISHED PRODUCT

## Lead Concentrate

December 2022

## Product characteristics

1. Product name: flotation lead concentrate as per OST 48-92-75. Specifications for concentrate are provided in Table 1.

Table 1 – Specifications for lead concentrate as per OST 48-92-75

| Concentrate grade | Weight fraction, % |                     |     |
|-------------------|--------------------|---------------------|-----|
|                   | Pb, minimum        | Admixtures, maximum |     |
|                   |                    | Zn                  | Cu  |
| KS5               | 50.0               | 10.0                | 4.0 |

2. Lead concentrate chemical composition is given in Table 2.

Table 2 – Lead concentrate chemical composition

| Element                        | UoM | Content       | Element                       | UoM | Content      |
|--------------------------------|-----|---------------|-------------------------------|-----|--------------|
| Zn                             | %   | 3,76-4,26     | Y                             | ppm | ≤10          |
| Pb                             | %   | 49,02-51,63   | SiO <sub>2</sub>              | %   | 0,21-0,44    |
| Cd                             | ppm | 0,0087-0,0104 | Al                            | %   | 0,04-0,06    |
| Ag                             | g/t | 517-862       | Ni                            | %   | ≤0,001-≤0,01 |
| Au                             | ppm | 0,45-0,60     | Ba                            | ppm | 120-200      |
| S <sub>total</sub>             | %   | 25,1-28,0     | Be                            | ppm | 0,02-6,00    |
| S <sup>2-</sup>                | %   | 23,8-24,7     | Ca                            | %   | 0,04-0,33    |
| C <sub>total</sub>             | %   | 0,39-0,51     | Cr                            | %   | 0,003-0,004  |
| C <sub>org</sub>               | %   | 0,14-0,34     | Zr                            | ppm | 44           |
| As                             | %   | 0,081-0,090   | Co                            | ppm | ≤0,001-≤0,01 |
| P                              | %   | ≤0,01-0,0126  | Cu                            | %   | 0,81-1,38    |
| Sb                             | %   | 0,04-0,07     | Fe                            | %   | 15,67-17,73  |
| Sc                             | ppm | ≤0,01         | K                             | %   | ≤0,01-0,015  |
| Sn                             | ppm | ≤0,02-0,29    | La                            | ppm | ≤0,01        |
| Sr                             | ppm | <10-30        | Li                            | ppm | ≤0,01        |
| Ti                             | %   | 0,006-≤0,01   | Mg                            | %   | 0,01-0,04    |
| V                              | ppm | ≤0,01-0,68    | Mn                            | %   | 0,040-0,053  |
| W                              | ppm | ≤0,01-54,12   | Mo                            | ppm | ≤0,01-8,83   |
| Al <sub>2</sub> O <sub>3</sub> | %   | 0,90-0,93     | Nb                            | ppm | ≤10          |
| CaO                            | %   | 0,038-0,070   | P <sub>2</sub> O <sub>5</sub> | %   | 0,05         |
| Cr <sub>2</sub> O <sub>3</sub> | %   | ≤0,01         | MnO                           | %   | 0,050-0,063  |
| Fe <sub>2</sub> O <sub>3</sub> | %   | 21,4-22,6     | Na <sub>2</sub> O             | %   | 0,06-0,252   |
| K <sub>2</sub> O               | %   | 0,010-0,014   | TiO <sub>2</sub>              | %   | 0,02-0,12    |
| MgO                            | %   | 0,01-0,07     | Sr                            | ppm | <10-30       |
| Hg                             | ppm | 1,80-4,30     | F                             | ppm | 77           |
| Bi                             | %   | 0,003≤0,01    | -                             | -   | -            |

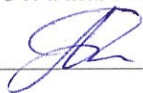
3. Lead concentrate main parameters of are given in Table 3.

Table 3 – Lead 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 galena (58 %) and pyrite (25 %), subordinate quantities include 6 % of sphalerite |
| Particle size distribution PM, $\mu\text{m}$ | 10                                                                                                                               |
| Specific density, $\text{t/m}^3$             | 5.80                                                                                                                             |
| Moisture content (max.), %                   | 15                                                                                                                               |

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