

The results of atmospheric air quality monitoring on the border of sanitary protection zone of PJSC ArcelorMittal Kryvyi Rih
in October 2022

| Sl. No. | Place of sampling | Pollutant | Quantity of measurements, nos. | | | | | | Pollutants concentrations, mg/m3 | | | | Maximum Permissible Concentration, MPC | | concentration, C monthly average, in the similar period of previous year |
|---------|---|--------------------------------------|--------------------------------|---|---|---------------------|---|---|---|---|----------------------------------|------------------|--|-------|--|
| | | | Total maximum one-time | including non-standard | | Total daily average | including non-standard | | Maximum one-time | | Monthly average concentration, C | | | | |
| | | | | during wind direction from industrial sites of AMKR | during wind direction to industrial sites of AMKR | | during wind direction from industrial sites of AMKR | during wind direction to industrial sites of AMKR | maximum concentration, C maximum one-time | minimal concentration, C minimum one-time | | maximum one-time | daily average | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| 1 | Monitoring station in the area affected by Steel Plant, 52, Kryvorizhstali Street | NO2 | 289 | - | - | 4 | - | - | 0,011 | bmm | 0,003 | 0,2 | 0,04 | 0,004 | |
| | | NO | 289 | - | - | 4 | - | - | 0,040 | bmm | 0,003 | 0,4 | 0,06 | 0,001 | |
| | | SO2 | 289 | - | - | 4 | - | - | 0,057 | 0,010 | 0,043 | 0,5 | 0,05 | 0,005 | |
| | | CO | 289 | - | - | 4 | - | - | 1,560 | 0,220 | 1,234 | 5,0 | 3,0 | 1,177 | |
| | | Dust | 288 | - | - | 4 | - | - | 0,168 | bmm | 0,010 | 0,5 | 0,15 | 0,162 | |
| | | Benz(a)pyrene, µg/100 m ³ | 4 | - | - | 1 | - | - | - | 0,03 (average daily) | - | 0,1 | 0,06 (average daily) | | |
| 2 | Monitoring station in the area affected by Coke Plant, 2a, Landau Street | NO2 | 2232 | - | - | 31 | - | - | 0,005 | 0,002 | 0,003 | 0,2 | 0,04 | 0,013 | |
| | | NO | 2232 | - | - | 31 | - | - | 0,050 | 0,029 | 0,042 | 0,4 | 0,06 | 0,022 | |
| | | SO2 | 2232 | - | - | 31 | - | - | 0,001 | 0,001 | 0,001 | 0,5 | 0,05 | 0,004 | |
| | | CO | 2232 | - | - | 31 | - | - | 2,331 | 0,743 | 1,229 | 5,0 | 3,0 | 1,257 | |
| | | NH3 | 2232 | - | - | 31 | - | - | 0,001 | 0,001 | 0,001 | 0,2 | 0,04 | 0,001 | |
| | | H2S | 2232 | - | - | 31 | - | - | 0,003 | 0,001 | 0,002 | 0,008 | not normalized | 0,002 | |
| | | Dust | 1744 | - | 1 | 25 | - | - | 0,636 | bmm | 0,046 | 0,5 | 0,15 | 0,088 | |
| | | Phenol | 1 | - | - | - | - | - | less than 0,004 (max. times) | less than 0,004 (max. times) | 0,01 | 0,003 | 0,004 (max. times) | | |
| | | Formaldehyde | 1 | - | - | - | - | - | 0,027 (max. times) | 0,027 (max. times) | 0,035 | 0,003 | 0,026 (max. times) | | |
| | | Benz(a)pyrene, µg/100 m ³ | 4 | - | - | 1 | - | - | - | 0,04 (average daily) | - | 0,1 | 0,05 (average daily) | | |
| 3 | Monitoring station in the area affected by Mining Department, 41a, Podlepy Street | NO2 | 2221 | - | - | 31 | - | - | 0,036 | 0,006 | 0,013 | 0,2 | 0,04 | 0,015 | |
| | | NO | 2221 | - | - | 31 | - | - | 0,035 | 0,001 | 0,010 | 0,4 | 0,06 | 0,044 | |
| | | SO2 | 2221 | - | - | 31 | - | - | 0,020 | 0,001 | 0,012 | 0,5 | 0,05 | 0,011 | |
| | | CO | 2221 | - | - | 31 | - | - | 2,271 | 0,659 | 0,821 | 5,0 | 3,0 | 1,422 | |
| | | Dust | 2220 | - | - | 31 | - | 1 | 0,472 | bmm | 0,052 | 0,5 | 0,15 | 0,113 | |
| | | Benz(a)pyrene, µg/100 m ³ | 4 | - | - | 1 | - | - | - | 0,07 (average daily) | - | 0,1 | 0,05 (average daily) | | |

Note 1: Atmospheric air quality control is performed by automated observation posts and the laboratory of the Department of Environmental Protection PJSC "ArcelorMittal Kryvyi Rih", certificate № 08-0058 / 2018 dated 20.12.2018 on compliance of the measurement system with the requirements of DSTU ISO 10012: 2005

Note 2: From 04.10.2022, the dust analyzer and gas analyzers of APS No. 1 were dismantled to undergo a planned replacement of electrochemical converters of gas analyzers, maintenance and verification, air quality control was performed on weekdays by portable devices.

Note 3: From 04.10.2022 to 11.10.2022, the APS No. 2 dust analyzer was dismantled for maintenance, air quality control was performed on weekdays by portable devices.

Note 4: Average monthly concentrations for the content of pollutants are derived from all the maximum single values obtained during the month.

Note 5: For the previous period, the determination of the concentration of phenol, formaldehyde was performed in December 2021.

Note 6: According to an agreement with a third-party organization, control over the content of benz(a)pyrene in the atmospheric air was carried out in September 2022 and August 2021.