



Cobalt

Co

| Miskolci Egyetem | | Műszaki föld- és környezettudományi Kar | | | | TEKH szakkollégium | |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|----------------------|-------|--------------------|--|
| Date | 2024-02-18 | Author | Elyas Haddad | Ahmad Saifo | CRM | Cobalt | |
| Transition metal | Alloy | UCC ppm | 20 | Atomic number | 27 | | |
| More... | Badawi et al 2024 | | | | | | |
| Critical list in EU since | | 2011 | | | | | |
| Main applications | Battery cathode, superalloy, stainless steel | | | | | | |
| More::: | Nitta et al 2015 | | | | | | |
| World resource countries | DRC | Russia | Australia | Total (M tonnes meta | 95 | | |
| More: | https://pubs.usgs.gov/periodicals/mcs2022/mcs2022-cobalt.pdf | | | | | | |
| European reserves | | Finland | Spain | EU total (M tonnes m | 0.1 | | |
| More: | https://screen.eu/wp-content/uploads/2023/08/SCREEN2_factsheets_COBALT-1.pdf | | | | | | |
| Main global producers | DRC | Indonesia | Russia | Total (M tonnes meta | 0.17 | | |
| More: | https://pubs.usgs.gov/periodicals/mcs2022/mcs2022-cobalt.pdf | | | | | | |
| Main European producers | | Finland | | EU total (M tonnes m | 0.002 | | |
| | https://screen.eu/wp-content/uploads/2023/08/SCREEN2_factsheets_COBALT-1.pdf | | | | | | |
| Geological environments in Europe | Cu-Ni sulfide ores in Proterozoic ultramafics | | | | | | |
| More: | Horn et al 2021 | | | | | | |
| Main ore forming minerals | Cobaltite, safflorite, gersdorfite, skutterudite | | | | | | |
| More: | Dill 2010 | | | | | | |
| Marketable product | Cobalt sulphate, cobalt oxide, cobalt metal | | | | | | |
| More: | https://www.grandviewresearch.com/industry-analysis/cobalt-market-report | | | | | | |
| European developments | Greatest exploration potential is in laterites - Turkey, Greece, end hard-rock Co-Ni of Finland, Sweden | | | | | | |
| More: | https://pdf.sciencedirectassets.com/271770/1-s2.0-S0169136821X00030/1-s2.0-S0169136820311008/main.pdf?X-Amz-Security- | | | | | | |
| Hungarian occurrence | 8409 | 8413 | 8082 | 3245 | 3559 | | |
| More: | https://kritikuselemek.uni-miskolc.hu/files/files/CriticEl_2_Monogr%C3%A1fia_k%C3%B6tet.pdf | | | | | | |
| Further details | | | | | | | |
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