



<p>Nickel</p> <p>Ni</p>

Miskolci Egyetem		Műszaki föld- és környezettudományi Kar				TEKH szakkollégium	
Date	2024-02-18	Author	Samuel Ayipa Arthur	Rayhan Aldizan Farrenzo	CRM	Nickel	
Transition metal alloy	UCC ppm	84	Atomic nu	28			
More...	Badawi et al 2024	www.screen.eu					
Critical list in EU since		2020	Critical raw material is the battery grade nickel				
Main applications		Stainless steel, alloy, battery cathode					
More:::		Nitta et al 2015					
World resource countries		Indonesia	Phillippine	Russia	Total (M tonne)	2022	95
More:		https://pubs.usgs.gov/periodicals/mcs2022/mcs2022-nickel.pdf					
European reserves		Turkey	Russia	Kosovo	EU total (M tonne)	2021	1.56
More:		https://screen.eu/wp-content/uploads/2023/12/SCREEN2_factsheets_NICKEL-updat					
Main global producer		Indonesia	Phillippine	New Caledonia	Total (M tonne)	2022	2.7
More:		https://pubs.usgs.gov/periodicals/mcs2022/mcs2022-nickel.pdf					
Main European producer		Finland	Greece	Poland	EU total (M tonne)	2020	0.054
More:		https://screen.eu/wp-content/uploads/2023/12/SCREEN2_factsheets_NICKEL-updat					
Geological environments in Europe		Cu-Ni sulfide ores in Proterozoic ultramafics (Talvivaara, FIN), Nickel laterite on ultramafics (Evia, GR)					
More:		Makkonen et al 2017					
Main ore forming minerals		Pentlandite, Ni-Co arsenides (ultramafics), garnierite, Ni-limonites					
More:		Dill 2010					
Marketable product		Battery grade Nickel, Class 1 Nickel, >99,8 % Ni					
More:		https://www.fitchsolutions.com/bmi/metals/battery-grade-nickel-assessing-global-supply-bottlenecks-and-opportunities-30-12-2021					
European developments		Finland 17.000 t Ni metal mine production 2023					
More:		https://nickelinstitute.org/media/3766/nickel_europe-infographics-finland.pdf					
Hungarian occurrence		9794	3761	3422			
More:							
Further details							
Refreshed at		Refreshed by					

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