



Manganese

Mn

Miskolci Egyetem		Műszaki föld- és környezettudományi Kar				TEKH szakkollégium	
Date	2024-02-18			Author	BADAWI A.A.	CRM	Manganese
Transition metal Allo	UCC ppm	950	Atomic nu	25			
More...		www.screen.eu					
Critical list in EU since		2023	Manganese is strategic mineral				
Main applications	Alloying agent in steel, cathode in batteries,						
More:::	Nitta et al 2015						
World resource countries	Australia	SAR	Gabon	Total (M tonnes metal)	1500		
More:	https://pubs.usgs.gov/periodicals/mcs2023/mcs2023-manganese.pdf						
European reserves			Ukraine	Kosovo	EU total (M tonnes metal)	780	
	https://screen.eu/wp-content/uploads/2023/08/SCREEN2_factsheets_MANGANESE.pdf						
Main global producers	SAR	Gabon	Australia	Total (M tonne	2022	20	
More:	https://pubs.usgs.gov/periodicals/mcs2023/mcs2023-manganese.pdf						
Main European producers	Bulgaria	Romania		EU total (M ton	2020	0.007	
	https://screen.eu/wp-content/uploads/2023/08/SCREEN2_factsheets_MANGANESE.pdf						
Geological environments in Europe	in Oligocene shallow marine manganese carbonate (Obrochiste, BG)						
More:	Dekov et al 2022						
Main ore forming minerals	rodochrosite		hausmann braunite		pirolusite		
More:	Dill 2010						
Marketable product	Mn ore (44 % MnO), electrolytic Mn, FeMn, SiMn alloys						
More:	https://www.mordorintelligence.com/industry-reports/manganese-market						
European developments	Chvaletice (Czech Republic) HPM recycling from waste						
More:	https://www.bnnbloomberg.ca/how-this-czech-high-purity-manganese-project-could-help-the-eu-meet-its-ev-battery-goals-1.1583686						
Hungarian occurrences	8409	8413	3395				
More:	Polgári et al 2000						
Further details							
Refreshed at	Refreshed by						

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