



# Lithium

Li

<b>Miskolci Egyetem</b>		<b>Műszaki föld- és környezettudományi Kar</b>				<b>TEKH szakkollégium</b>	
Date	2024-03-10		Author	FÖLDESSY J.	CRM	Lithium	
Industrial mineral	UCC ppm	20	Atomic nu	3			
More...	Badawi et al 2024	<a href="http://www.screen.eu">www.screen.eu</a>					
Critical list in EU since		2020	The battery grade Li is strategic mineral				
Main applications	60 % in glass and ceramics, growing 40% in batteries, low density 0.56 g/cm <sup>3</sup>						
More:::	Nitta et al 2015						
World resource countries	Australia	Chile	China	Total (M tonne)	2020	949	
More:	<a href="https://pubs.usgs.gov/periodicals/mcs2022/mcs2022-lithium.pdf">https://pubs.usgs.gov/periodicals/mcs2022/mcs2022-lithium.pdf</a>						
European reserves	Germany	Portugal	Finland	EU total (M tonne)	2020	81	
More:	<a href="https://screen.eu/wp-content/uploads/2023/12/SCREEN2_factsheets_LITHIUM-update.pdf">https://screen.eu/wp-content/uploads/2023/12/SCREEN2_factsheets_LITHIUM-update.pdf</a>						
Main global producers	Australia	Chile	China	Total (Kt)	2021	100	
More:	<a href="https://pubs.usgs.gov/periodicals/mcs2022/mcs2022-lithium.pdf">https://pubs.usgs.gov/periodicals/mcs2022/mcs2022-lithium.pdf</a>						
Main European producers	Portugal			EU total (Kt)	2022	0.4	
More:	<a href="https://screen.eu/wp-content/uploads/2023/12/SCREEN2_factsheets_LITHIUM-update.pdf">https://screen.eu/wp-content/uploads/2023/12/SCREEN2_factsheets_LITHIUM-update.pdf</a>						
Geological environments in Europe	Granite aplite dykes, pegmatite (Barroso, PT) , lacustrine volcanogenic sediments (Jadar, SRB)						
More:	Carvalho et al 2004						
Main ore forming minerals	spodumen lepidolite hectorite jadarite						
More:	Dill 2010						
Marketable product	Lithium carbonate , products are measured in LCE Lithium carbonate equivalent						
More:	<a href="https://www.mckinsey.com/industries/metals-and-mining/our-insights/lithium-mining-how-new-production-technologies-could-fuel-the-global-ev-revolution">https://www.mckinsey.com/industries/metals-and-mining/our-insights/lithium-mining-how-new-production-technologies-could-fuel-the-global-ev-revolution</a>						
European development	Wolfsberg/Germany, spodumene, reserves and resources : 7.5 million tonnes (0.71% Li <sub>2</sub> O average grade) and 11 million tonnes						
More:	<a href="https://screen.eu/wp-content/uploads/2023/12/SCREEN2_factsheets_LITHIUM-update.pdf">https://screen.eu/wp-content/uploads/2023/12/SCREEN2_factsheets_LITHIUM-update.pdf</a>						
Hungarian occurrences	5919	7300					
More:	Echevarria and Madai 2016						
Further information							
Reserve grades range	0.12-1.3 % Li <sub>2</sub> O						
Refreshed at	Refreshed by						

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