

The Czech Republic mine production and mineral reserves – Overview in the year 2009

Mineral	Specifications	Mine production		R e s e r v e s														
		2009	Category in Czech wording	Category in English wording	Reserves of the given category in		Reserves of the given category in		Reserves of the given category in		Reserves of the given category in		Category in Czech wording	Category in English wording	2009	Category in Czech wording	Category in English wording	2009
					2009	Category in Czech wording	2009	Category in Czech wording	2009	Category in Czech wording	2009	Category in Czech wording						
Energy minerals																		
Bituminous coal	ths tonnes	10 621			16 455 297			1 543 177			6 011 672			8 900 448				205 630
Brown coal	ths tonnes (Czech Statistical Office presents so-called sales mine production which is production of marketable brown coal and reaches on average about 95 % of given mine production)	45 354			9 055 290			2 789 379			2 168 466			4 097 445				862 633
Crude oil	ths tonnes	217			31 031			15 440			4 482			11 105				1 490
Lignite	ths tonnes	262			975 281			203 788			615 273			156 208				1 903
Natural gas	mill m ³ = ths tonnes	180			46 140			4 333			39 855			1 936				6 869
Uranium	tonnes U (concentrate production, tonnes U (corresponds to sales production (without beneficiation losses))	286			135 425			1 422			19 420			114 579				377
Industrial minerals																		
Barite	ths tonnes (including mining of montmorillonite clays overburden of kaolins since 2004)	0			569			0			0			569				0
Bentonite	ths tonnes	181			303 313			60 598			139 809			102 906				27 434
Clays	ths tonnes	377			925 714			180 311			402 944			342 459				47 273
Diatomite	ths tonnes	0			4 401			4 073			328			0				4 381
Dolomite	ths tonnes	337			513 362			78 277			340 843			94 262				10 898
Feldspar	ths tonnes	431			63 788			28 174			26 804			13 808				16 663
Feldspar substitutes	ths tonnes	23			199 948			0			199 948			0				24 378
Fluorspar	ths tonnes	0			2 033			0			0			2 033				0
Foundry sand	ths tonnes	374			376 774			133 071			97 066			146 637				75 520
Gemstones	Pyrope bearing rock ths tonnes	26			19 510			3 328			13 283			2 899				1 216
	Moldavite (tectite) bearing rock ths m ³	58			339			0			336			3				160
	ths tonnes (1 m ³ = 1.8 tonnes)	104			610			0			605			5				288
Glass sand	ths tonnes	990			259 344			89 378			25 538			144 428				81 671
Graphite	ths tonnes	0			14 159			1 321			4 041			8 797				35
Gypsum	ths tonnes	13			504 276			119 143			302 890			82 137				2 308
Kaolin	Raw, ths tonnes (total production of all technological grades)	2 886			1 208 331			244 636			504 720			458 975				80 024
	Beneficiated, ths tonnes	525																
Limestones and corrective additives for cement production	ths tonnes	9 488			4 908 316			2 103 034			1 934 539			870 743				1 573 011
Silica minerals	ths tonnes	16			28 640			907			22 981			4 752				554
Construction minerals																		
Brick clays and related minerals	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	1 028			548 789			217 977			232 709			98 083				68 190
	Mine production in non-reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	1 850			987 784			392 359			418 876			176 549				122 742
	Mine production in non-reserved deposits, ths m ³ (estimate)	203			686 873			65 114			515 285			106 474				725
	Mine production in non-reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (estimate)	365			1 236 371			117 205			927 513			191 653				1 305
Crushed stone	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	13 947			2 346 363			1 153 009			1 043 741			149 613				719 019
	Mine production in reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	37 657			6 335 180			3 113 124			2 818 101			403 955				1 941 351
	Mine production in non-reserved deposits, ths m ³ (estimate)	1 350			1 038 869			45 772			912 925			80 172				34 708
Dimension stone	Mine production in non-reserved production in non-reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (estimate)	3 650			2 804 948			123 584			2 464 898			216 464				93 712
	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	209			183 752			79 955			65 826			37 971				82 409
	Mine production in reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	564			496 130			215 879			177 730			102 522				222 504
	Mine production in non-reserved deposits, ths m ³ (estimate)	54			33 546			2 293			28 297			2 956				2 755
Sand and gravel	Mine production in non-reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (estimate)	146			90 574			6 191			76 402			7 981				7 439
	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	7 269			2 112 759			1 123 164			765 626			223 969				373 377
	Mine production in reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	13 084			3 802 966			2 021 695			1 378 127			403 144				672 079
	Mine production in non-reserved deposits, ths m ³ (estimate)	6 050			2 097 034			110 585			1 745 512			240 937				50 331
	Mine production in non-reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (estimate)	10 890			3 774 661			199 053			3 141 922			433 687				90 596
Metallic ores (not mined in the Czech Republic)																		
Copper	ths tonnes Cu	0			49			0			0			49				
Gold	tonnes Au	0			240			0			29			162				
Lead	ths tonnes Pb	0			152			0			0			152				
Manganese	ths tonnes ore	0			138 801			0			0			138 801				
Silver	tonnes Ag	0			532			0			0			532				
Tin	ths tonnes Sn	0			164			0			0			164				
Tungsten	ths tonnes W	0			70			0			0			70				
Zinc	ths tonnes Zn	0			472			0			0			472				

Notes:

Bituminous coal	The calorific value of 32 % mined bituminous coal Qir is between 25.32 – 28.15 MJ/kg and ash content Ad between 11.74 – 20.00 %. Additional 36 % of mined coal has the calorific value Qir between 22.58 – 23.32 MJ/kg and ash content Ad between 25.20 – 31.80 % and 32 % of mined coal has the calorific value Qir 19.40 MJ/kg and ash content Ad 34.80 – 38.30 %.
Brown coal	10 % of the mined brown coal has calorific value Qir 17.93 MJ/kg, ash content Ad 15.30 % and sulfur content Sd 1.50 %, 37 % of the mined coal has calorific value Qir between 13.30 – 14.77 MJ/kg, ash content Ad between 14.70 – 27.60 % and sulfur content Sd 0.70 – 1.60 % and almost 53 % of the mined brown coal has calorific value Qir 9.94 – 12.60 MJ/kg, ash content Ad 24.00 – 44.10 % and sulfur content Sd 0.80 – 2.50 %.
Lignite	The mined lignite has calorific value Qir 9.15 MJ/kg, ash content Ad 24.45 % and sulfur content Sd 1.70 %.
Construction minerals	Reserved mineral deposits are owned by the Czech Republic. Non-reserved deposits (especially lot of sand and gravel, crushed stone and brick clay deposits) are a constituent part of the land and are owned by landowners.