

The Czech Republic mine production and mineral reserves – Overview in the year 2016

Mineral	Specifications	Mine production		Reserves									
		2016	Category in Czech wording	Reserves of the given category in 2016	Category in Czech wording	Reserves of the given category in 2016	Category in Czech wording	Reserves of the given category in 2016	Category in Czech wording	Reserves of the given category in 2016	Category in Czech wording	Reserves of the given category in 2016	Category in Czech wording
Energy minerals													
Bituminous coal	the tonnes	6 074		16 285 605		1 465 793		5 991 317		8 628 495			25 199
Brown coal	the 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)	38 646		8 729 236		2 203 911		2 059 859		4 485 456			714 356
Crude oil	the tonnes	110		30 653		21 482		3 365		5 810			1 554
Lignite	the tonnes	0		997 229		619 652		229 932		147 645			1 903
Natural gas	m ³ m ³ = the tonnes	160		30 839		7 381		2 977		20 481			4 918
Uranium	tonnes U (corresponds to sales production (without beneficiation losses))	128		135 015		1 337		19 448		114 230			313
Industrial minerals													
Barite	the tonnes	0		1 015		0		0		1 015			0
Bentonite	the tonnes (including mining of montmorillonite clays overburden of kaolins since 2004)	374		306 911		74 648		126 877		105 386			53 489
Clays	the tonnes	538		920 056		173 407		397 403		349 246			78 757
Diatomite	the tonnes	28		2 434		1 728		0		706			706
Dolomite	the tonnes	417		524 464		241 921		156 786		126 368			153 067
Feldspar	the tonnes	454		76 476		24 593		36 185		15 688			37 197
Feldspar substitutes	the tonnes	31		199 807		0		199 807		0			24 237
Fluor spar	the tonnes	0		2 178		0		0		2 178			0
Foundry sand	the tonnes	621		408 935		126 366		133 342		147 227			153 012
Gemstones													
Pyrope bearing rock	the tonnes	8		19 400		3 217		13 002		3 181			1 449
Moldavite (tectite) bearing rock	the m ³	71		514		96		415		0			370 083
Glass sand	the tonnes	801		252 337		82 321		25 077		144 939			195 190
Graphite	the tonnes	0		13 112		2 981		4 346		5 785			50
Gypsum	the tonnes	10		504 183		119 056		302 990		82 137			38 164
Kaolin	Raw, the tonnes (total production of all technological grades)	3 542		1 175 592		221 720		498 980		454 892			379 782
	Beneficiated, the tonnes	643											
Limestones and corrective additives for cement production	the tonnes	10 996		4 105 042		1 612 606		1 737 433		755 003			1 939 127
Silica minerals	the tonnes	18		25 633		763		20 248		4 622			618
Construction minerals													
Brick clays and related minerals													
	Mine production in reserved deposits, the m ³ (decrease of mineral reserves by mine production)	877		531 151		199 274		228 964		102 913			55 017
	Mine production in reserved deposits, the tonnes (1 m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	1 579		771 053		358 693		412 135		225			99 031
	Mine production in non-reserved deposits, the m ³ (estimate)	225		694 370		63 622		523 895		106 853			11 220
	Mine production in non-reserved deposits, the tonnes (1 m ³ = 1.8 tonnes) (estimate)	405		1 249 866		114 520		943 011		192 335			20 196
Crushed stone													
	Mine production in reserved deposits, the m ³ (decrease of mineral reserves by mine production)	12 385		2 400 765		1 160 712		1 097 145		142 908			1 257 960
	Mine production in reserved deposits, the tonnes (1 m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	33 440		6 482 066		3 133 922		2 962 292		385 852			3 396 492
	Mine production in non-reserved deposits, the m ³ (estimate)	1 408		1 027 964		39 509		905 311		83 144			52 379
	Mine production in non-reserved deposits, the tonnes (1 m ³ = 2.7 tonnes) (estimate)	3 802		2 775 503		106 674		2 444 340		224 489			141 423
Dimension stone													
	Mine production in reserved deposits, the m ³ (decrease of mineral reserves by mine production)	156		182 056		77 757		65 414		38 885			75 922
	Mine production in reserved deposits, the tonnes (1 m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	421		491 551		209 944		176 616		104 990			204 989
	Mine production in non-reserved deposits, the m ³ (estimate)	48		33 187		2 173		28 056		2 956			8 681
	Mine production in non-reserved deposits, the tonnes (1 m ³ = 2.7 tonnes) (estimate)	130		89 605		5 867		75 757		7 981			23 436
Sand and gravel													
	Mine production in reserved deposits, the m ³ (decrease of mineral reserves by mine production)	6 143		2 114 371		1 078 027		797 577		238 767			800 612
	Mine production in reserved deposits, the tonnes (1 m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	11 057		3 805 868		1 940 449		1 435 639		429 781			1 441 102
	Mine production in non-reserved deposits, the m ³ (estimate)	4 045		2 100 304		104 723		1 759 779		235 802			49 549
	Mine production in non-reserved deposits, the tonnes (1 m ³ = 1.8 tonnes) (estimate)	7 281		3 780 547		188 501		3 167 602		424 444			89 188
Metallic ores (not mined in the Czech Republic)													
Copper	the tonnes Cu	0		51		0		0		51			
Gold	tonnes Au	0		240		49		29		162			
Lead	the tonnes Pb	0		161		0		0		161			
Lithium	tonnes Li	0		112 778		52 283		72 490		329 804			
Manganese	the tonnes ore	0		138 801		0		0		138 801			
Silver	tonnes Ag	0		532		0		0		532			
Tin	the tonnes Sn	0		241		36		48		157			
Tungsten	the tonnes W	0		90		9		10		71			
Zinc	the tonnes Zn	0		550		0		0		599			

Notes:

* Uranium, concentrate prod.	Higher concentrate production was due to the cleaning of technological equipment in the Stráž pod Ralskem chemical plant.
Bituminous coal	The calorific value of 1 % mined bituminous coal Qr is between 14 – 20 MJ/kg and ash content Ad between 37 – 55 %. Additional 65 % of mined coal has the calorific value Qr between 22 – 28 MJ/kg and ash content Ad between 19 – 19.5 % and 34 % of mined coal has the calorific value Qr between 28.5 – 30 MJ/kg and ash content Ad 6.5 – 22 %.
Brown coal	65 % of the mined brown coal has calorific value Qr 9 – 11 MJ/kg, ash content Ad 38 – 42 % and sulfur content Sd 1 – 3 %. 18 % of the mined coal has calorific value Qr between 12 – 15 MJ/kg, ash content Ad between 18 – 37 % and sulfur content Sd 1 – 2 %. Almost 27 % of the mined brown coal has calorific value Qr 14 – 18 MJ/kg, ash content Ad 12 – 28 % and sulfur content Sd 1 – 2 %.
Lignite	Lignite was not mined in 2016.
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.