

Table 7

IMPORT AND EXPORT OF MINERAL RAW MATERIALS AND SELECTED SEMI-FINISHED PRODUCTS
IN 2019

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
I. FUELS				
Total:	52,287,481,577	73,766,398	16,779,000,350	22,322,720
Natural gas	Data not available due to the confidentiality of the information			
Crude oil	26,260,476,826	45,884,395	242,907,210	435,872
Petroleum products	7,894,362,157	17,662,974	4,725,872,264	8,547,927
Hard coal, including:	16,695,599,877	6,643,220	4,417,906,564	2,355,781
- anthracite	286,652,893	171,295	59,317,364	44,766
- humic, coke, nonintegrated	3,440,637,001	2,614,831	2,575,289,054	1,568,778
- humic without coke, powder, nonintegrated	10,267,529,445	3,004,076	16,732,350	5,821
- other (without anthracite and humic)	2,689,545,561	848,585	1,741,955,078	726,839
- briquet	11,234,977	4,433	24,612,718	9,576
Brown coal	237,326,569	86,524	147,440,104	19,267
Coal gas other than from crude oil	951	429	16,025	288
Chemical products	352,989,767	773,654	614,024,853	907,437
Coke and semi-coke	179,920,004	132,372	6,171,976,099	7,413,549
Products from ennobled coal	47,168,044	1,033,914	99,509,512	1,465,856
Bitumen and natural asphalt, bituminous schist	384,163,324	1,467,741	281,797,281	1,146,511
II. METALS				
Total:	10,499,097,857	23,994,604	3,995,238,241	26,056,075
Aluminum, including:	1,091,845,294	7,143,338	541,467,121	3,204,050
- ores and concentrates	39,447,047	37,055	425,680	1,101
- wastes containing Al	4,662,512	13,749	11,178,899	28,409
- non-alloys, non-processed	204,364,359	204,364	37,993,799	291,445
- alloys	495,312,176	4,167,319	221,012,020	1,542,712
- wastes and scrap	218,684,985	959,471	254,550,421	1,271,112
- powders and flakes	2,608,463	31,920	3,543,558	43,306
- compounds	126,765,752	402,999	12,762,744	25,965
Antimony, including:	1,157,697	31,843	125,337	3,623
- non-processed, powders, wastes, scrap	116,756	3,314	85,141	2,466
- compounds	1,040,941	28,530	40,196	1,157
Barium (see: Strontium and barium or barium compounds in: Chemicals)				
Bismuth:				
- non-processed., powders, scrap	32,991	1,037	3,680	101
Chromium, including:	11,496,496	44,633	7,886,354	20,426
- ores and concentrates	9,288,393	17,594	159,025	350
- non-processed, alloys, powders, scrap	618,168	5,190	7,557,943	17,303
- compounds	1,589,935	21,849	169,386	2,772
Tin, including:	8,829,413	362,898	1,719,305	132,035
- ores and concentrates	81,912	1,182	0	0
- ash and remains containing Sn	2,559,634	56,931	0	0
- non-alloys	942,087	68,611	1,689,235	129,463
- alloys	1,186,986	55,989	15,826	1,810
- wastes and scrap	4,029,236	177,976	5,801	119
- compounds	29,558	2,209	8,443	643
Zinc, including:	301,589,927	1,517,704	136,342,612	1,141,604
- ores and concentrates	174,938,037	503,544	19,822,350	5,407
- ash and remains containing mainly Zn	20,099,478	66,980	6,463,043	48,167
- non-alloy	48,370,047	529,050	75,612,869	785,169
- alloys	12,613,748	142,844	5,563,591	60,104
- wastes and scrap	9,730,948	71,679	10,498,256	83,680
- powders, dust and flakes	5,918,686	46,698	1,630,527	11,317
- compounds	29,918,983	156,909	16,751,976	147,761

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
Zirkon, including:	1,577,394	11,120	5,101	34
- ores and concentrates	1,537,170	10,117	5,100	33
- non-processed, powders, wastes, scrap	40,224	1,003	1	0
Galium, indium, thallium:				
- non-processed, scrap, wastes, powders	468	356	24	39
Germanium, including:	61,148	2,655	4,175	159
- non-processed, scrap, wastes, powders	9	112	0	0
- compounds	61,139	2,542	4,175	159
Hafnium:				
- non-processed, scrap	0	1	0	4
Iridium, osmium, ruthenium:				
- raw, powders	0	0	1	116
Cadmium, including:	1,530	53	4,921	26
- non-processed, scrap, powders	1,028	38	4,921	26
- compounds	502	15	0	0
Cobalt, including:	44,720	8,716	6,266	726
- ores and concentrates	736	1	0	0
- non-processed, powders, wastes, scrap	19,598	5,564	1,512	156
- compounds	24,386	3,151	4,754	570
Lithium:				
- compounds	342,773	14,349	39,329	2,242
Magnesium, including:	138,564,321	308,960	51,634,537	63,599
- metallic, non-processed	10,636,285	115,022	116,202	1,256
- scrap, wastes, powders	2,274,603	22,175	3,207,268	28,199
- compounds	125,653,433	171,763	48,311,067	34,144
Manganese, including:	131,007,862	195,640	114,770,749	117,207
- ores	118,363,085	111,994	113,762,380	109,911
- non-processed, scrap, wastes, powders	2,121,288	16,104	483,072	3,163
- compounds	10,523,489	67,542	525,297	4,133
Alkalic metals (excluding sodium)	1,261	42	75	3
Precious metals, including:	5,817,680	1,977,249	8,814,843	4,278,867
- ores and concentrates	540	48	0	0
- wastes, scrap (excluding Au, Pt)	1,687,342	567,281	4,116,767	1,050,933
- non jewelry products (excluding Au, Pt), catalysts	572,989	57,017	1,887	2,245
- compounds	3,556,809	1,352,903	4,696,189	3,225,689
Rare earth elements;	556,371	14,937	131,262	4,258
Including:				
- yttrium, scandium (unresolved)	198,787	660	0	5
non-alloy, not mixed., mixtures, alloys				
- cerium	357,584	14,277	131,262	4,253
- compounds	353,784	14,155	87,940	3,668
- Fe-Ce alloys	3,800	122	43,322	585
Copper, including:	292,963,489	3,533,083	401,532,069	8,581,979
- ores and concentrates	133,089,816	1,308,074	3	3
- wastes containing Cu	0	0	1,435,854	8,083
- copper mattes and cement Cu	0	0	2,384,753	15,158
- unrefined (anodes for electro-refining)	8,588,018	213,219	18,801	869
- refined (cathodes etc.)	6,641,601	145,778	287,337,341	6,682,681
- alloys (brass, bronze, alpaca etc.; transitional alloys)	2,230,540	45,856	3,282,916	70,683
- wastes, scrap	66,657,299	1,131,650	34,240,442	688,102
- wastes and alloys scrap	68,265,850	610,560	61,127,201	998,640
- powders and flakes	234,916	11,224	1,104,779	40,193
- compounds	7,255,449	66,722	10,599,979	77,567
Molybdenum, including:	1,410,202	58,869	1,227,710	62,210

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
- ores and concentrates	310,162	17,430	47,930	218
- non-processed, wastes, scrap	277,520	5,904	55,178	1,326
- powders	5,942	553	0	0
- compounds	816,578	34,982	1,124,602	60,666
Nickel, including:	4,706,358	262,210	3,722,313	81,704
- non-alloy and indirect metallurgical products	3,335,661	175,271	486,060	26,673
- non-processed alloys	286,424	52,445	24,859	2,820
- wastes and scrap of non-alloy	357,036	9,088	123,894	484
- wastes and alloys scrap	63,418	2,076	956,698	24,896
- powders and flakes	68,696	8,668	11,552	874
- compounds	595,123	14,662	2,119,250	25,956
Niobium and rhenium:				
- non-processed, scrap, wastes, powders	5,780	4,525	1,442	1,873
Lead, including:	105,286,959	829,002	149,232,349	762,580
- ores and concentrates	1,891,366	10,943	71,954,928	120,250
- wastes containing Pb	5,516	64	45,511	178
- refined and unrefined, non-processed	76,957,743	628,250	46,635,463	379,527
- alloys	9,893,325	92,276	24,325,862	223,676
- wastes and scrap	13,432,997	78,240	5,398,570	30,947
- powders and flakes	12	2	0	0
- compounds	3,106,000	19,226	872,015	8,002
Radioactive elements (unresolved)	4,893	40,235	16,989	85,858
Palladium:				
- raw and in the form of powder	3,279	608,388	93	17,698
Platinum, including:	90,639	335,249	248,349	179,157
- raw, in the form of powder	66,372	175,856	282	28,493
- wastes, scrap	20,847	3,761	226,369	142,270
- catalysts	3,420	155,632	21,698	8,394
Rhodium:				
- raw, in the form of powder	614	253,262	39	19,706
Mercury:				
- metallic	8,893	307	0	0
Sodium:				
- metallic	43,476	1,304	2,388	80
Silver, including:	264,476	100,780	1,403,605	2,793,008
- ores and concentrates	20,000	131	0	0
- raw and in the form of semi-product	200,685	67,339	1,396,544	2,790,295
- powder	10,195	4,141	110	202
- compounds	33,596	29,169	6,951	2,511
Strontium (see: Strontium and barium or compounds in: Chemicals)				
Tantalum:				
- non-processed, powders, wastes, scrap	2	8	95	90
Thorium:				
- non-processed, powders, wastes, scrap	24,349	201	188	10
Titanium, including:	170,483,438	997,090	26,122,252	268,309
- ores and concentrates	85,277,009	88,255	111,682	556
- non-processed, powders, wastes, scrap	1,278,848	14,004	1,749,577	17,997
- compounds	83,927,581	894,831	24,260,993	249,757
Uranium:	30	63	109	12
- compounds, alloys, ceramic products containing U-natural	0	0	109	12
- compounds, alloys, ceramic products enriched in U-235	0	16	0	0
- compounds, alloys, ceramic products depleted in U-235	30	47	0	0
Vanadium:	2,053	354	4,884	712

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
- non-processed, wastes, powders	2	4	0	0
- compounds	2,051	350	4,884	712
Calcium:				
- metallic	182,167	2,071	14,504	162
Tungsten, including:	16,222	5,263	883,269	41,366
- non-processed, powders, wastes, scrap	16,005	5,160	184,057	12,518
- compounds	217	103	699,212	28,848
Gold, including:	1,984	205,865	24,054	275,383
- powder	0	15	0	29
- raw other than powder	1,046	175,522	2,294	168,523
- wastes, scrap	41	4,080	21,755	106,827
- compounds	897	26,248	5	5
Iron, including:	7,731,894,434	5,059,513	2,387,858,492	3,894,544
- ores and concentrates	6,386,361,144	2,183,170	3,667,851	2,516
- wastes rich in Fe	21,763,570	2,449	57	0
- non-alloy pig iron	210,071,604	309,138	75,880,313	127,232
- alloy pig iron	296,726	89	0	0
- ferroalloy	234,933,589	1,236,480	151,564,714	725,392
- products from the direct deoxidation of ores	5,340	40	0	1
- Fe of purity > 99.94%	33,031	153	192,326	1,564
- wastes and scrap	795,918,752	884,320	2,131,442,462	2,873,672
- pellets and powders, pig cast iron and steel	25,947,405	86,510	11,943,467	39,133
- compounds	56,563,273	357,164	13,167,302	125,036
Other metal ores	286,006	158	0	0
Wastes from metals metallurgy	496,443,964	51,847	159,883,256	19,198
III. CHEMICALS				
Total:	6,523,570,628	6,748,185	4,323,833,123	4,803,438
Arsenic	58,101	448	19,800	205
Barium, including:	15,221,422	25,150	365,022	742
- barite	12,833,480	18,175	259,162	451
- compounds	2,387,942	6,974	105,860	292
Boron, including:	14,706,644	34,807	3,277,721	8,222
- boron	2,686	71	24,562	121
- natural borate minerals	5,054,010	7,216	1,833,686	3,226
- compounds	9,649,948	27,521	1,419,473	4,875
Bromine, including:	1,566,153	9,847	895,519	9,175
- bromine	20	7	135	11
- compounds	1,566,133	9,840	895,384	9,165
Fluorine, including:	9,435,533	25,649	184,087	710
- fluorine	831	180	0	0
- fluorite	6,858,019	10,937	96,000	170
- compounds	2,576,683	14,533	88,087	540
Phosphorus, including:	1,385,263,186	821,605	154,237,777	375,850
- phosphorus	24,858,280	255,390	9,910,750	113,173
- phosphorites	1,324,593,227	449,295	648,990	110
- phosphates fertilizers	6,669,200	9,314	91,037,098	81,502
- compounds	29,142,479	107,606	52,640,939	181,066
Helium	234,138	32,863	481,962	132,227
Iodine, including:	66,315	6,361	13,640	1,863
- iodine	16,266	1,973	7,634	939
- compounds	50,049	4,387	6,006	924
Carbide	14,102,443	36,703	174,724	559
Silica (siliceous rocks, diatomaceous earth, rottenstone, diatomaceous rock)	5,173,692	11,535	187,702	559
Silicon, including:	139,873,326	934,105	99,357,768	442,083
- silicon	30,098,356	214,905	2,509,525	22,235
- compounds	109,774,970	719,199	96,848,243	419,848
Fertilizers, including:	2,401,337,591	2,572,095	2,566,024,044	2,696,503
- nitrogen	1,389,078,243	1,227,863	1,847,827,099	1,626,091

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
- multi-compound	1,012,259,348	1,344,231	718,196,945	1,070,412
Mineral pigments, ochre	678,455	2,242	39,060	141
Potassium:	1,026,639,627	1,280,714	25,330,959	63,635
- potassium fertilizers	973,612,601	1,123,536	13,247,027	17,745
- compounds	53,027,026	157,179	12,083,932	45,890
Selenium and tellurium, including:	135,309	8,697	292,638	9,903
- selenium	64,436	4,090	31,392	2,291
- tellurium	359	194	0	0
- compounds	70,514	4,413	261,246	7,613
Sulfur, including:	79,996,327	82,171	495,979,755	192,765
- iron pyrites	457,102	1,705	5,460	12
- raw or unrefined	1,503,299	493	14,531,028	3,293
- refined	124,873	933	104,716,594	88,237
- sublimed or precipitated, colloid	765,246	1,391	6,749,309	3,190
- sulphuric acid, oleum	13,827,053	9,301	283,118,139	51,847
- compounds	63,318,754	68,349	86,859,225	46,187
Sodium, including:	1,274,220,164	616,939	945,385,932	818,103
- rock salt for chemical processing	217,006,939	46,632	7,007,254	3,742
- denatured salt for industrial purposes	2,611,863	3,177	21,603,615	13,550
- food salt for people	51,982,203	28,718	55,154,027	31,505
- food salt for animals	643,351,455	78,659	363,677,661	108,452
- brine	207,202	5,062	426,340	2,735
- compounds	359,060,502	454,691	497,517,035	658,118
Strontium and barium, including:	2,046,804	9,425	104,100	1,313
- strontium and barium	54,007	1,486	22,700	812
- Sr compounds	1,992,797	7,939	81,400	502
Calcium:				
- compounds	154,862,202	246,256	31,585,013	50,192
IV. ROCKS				
Total:	9,797,539,017	3,548,309	4,547,874,224	3,141,660
Asbestos:				
- raw, flakes, powder	0	0	1,510	2
Bentonites	267,501,735	75,374	42,953,959	55,990
Cement, including:	1,422,580,991	375,436	337,485,742	250,963
- cements	1,242,287,428	342,371	305,430,165	242,841
- cement clinker	180,293,563	33,065	32,055,577	8,123
Dolomite:				
- raw, burned, consolidated	171,632,511	23,977	25,269,684	10,578
Gypsum, including:	193,375,048	117,980	511,582,462	273,309
- gypsum, anhydrite	7,595,213	2,633	95,541,962	7,017
- gypsum plasters	68,836,996	36,715	65,358,552	26,937
- gypsum, construction products	116,942,839	78,632	350,681,948	239,355
Clay (excluding refractory and foundry), including:	110,522,757	243,553	1,931,607	2,285
- other clays	81,816,048	30,747	1,625,557	1,806
- andalusite, cyanite, sillimanite, mullite	18,214,247	203,297	84,360	240
- chamotte and dinas earth	10,492,462	9,509	221,690	239
Natural graphite	11,825,506	95,032	563,504	10,738
Dimension and crushed stones, including	4,045,272,336	922,233	1,133,144,341	221,677
- Dimension stones:	421,693,640	589,293	201,577,401	168,105
- crude or roughly worked	157,764,858	157,562	141,262,503	61,813
- cutted to blocks and plates of a maximum thickness equal 25 cm	3,603,471	7,351	5,039,384	6,871
- building elements	258,514,390	421,424	34,956,219	98,383
- other	1,810,921	2,955	20,319,295	1,038
- Crushed stones:	3,623,578,696	332,940	931,566,940	53,572
- pitchers, curbs etc.	61,010,446	37,541	52,080,163	20,872
- crushed aggregates	3,562,568,150	295,399	879,486,777	32,700

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
Gemstones and decorative stones non-processed, including:	53,948	41,702	2,456	12,640
- diamonds	30,158	34,057	3	3,678
- other	23,790	7,645	2,453	8,962
Kaolin, including:	114,635,389	75,819	24,327,347	12,844
- raw	77,220,824	57,788	16,264,981	7,248
- burned	37,414,565	18,031	8,062,366	5,596
Corundum and other abrasives, including:	22,745,838	21,857	5,926,246	10,348
- corundum, emery, garnet, raw and preliminary processed	22,745,155	21,012	5,926,237	10,322
- ash and powder from diamonds and from other natural stones	683	845	9	26
Chalk	59,322,595	24,861	33,564,085	11,413
Natural aggregates, including:	1,746,196,078	70,750	350,957,647	12,089
- sands (fine aggregates)	381,729,027	7,031	211,644,265	6,353
- gravel (coarse aggregates)	1,364,467,051	63,719	139,313,382	5,736
Quartz	1,138,649	2,721	269,649	439
Quartzite	21,210,201	2,195	33,469,459	8,481
Insulating materials	192,358,789	507,884	295,793,726	1,400,269
Refractory materials, including:	522,456,080	441,539	110,901,007	376,107
- magnesite	37,340,566	115,153	196,491	1,218
- refractory clay	403,731,545	113,792	14,931,753	10,476
- refractory mass and grounds	77,762,719	198,618	62,845,240	191,653
- products containing magnesite, dolomite or chromite	3,621,250	13,976	32,927,523	172,760
Mica, including:	2,890,132	21,457	20,866	1,188
- raw, powder	2,421,526	6,891	10,164	114
- mica products	468,606	14,566	10,702	1,073
Minerals and rocks of technical importance	267,679,571	281,135	118,437,082	319,396
Natural polishing materials:				
- raw pumice and other	981,171	1,202	121,744	3,086
Siliceous and quartzitic (glass) sands	26,702,634	20,714	262,471,365	47,069
Feldspar	379,406,926	59,671	159,165	124
Talc:				
- talc, steatite	39,904,927	63,782	1,364,478	2,714
Peat and peat products	235,474,058	81,175	77,550,438	30,232
Lime:				
- limestone flux, lime	177,145,305	57,431	1,257,155,093	97,909