

Table 7

IMPORT AND EXPORT OF MINERAL RAW MATERIALS AND SELECTED SEMI-FINISHED PRODUCTS
IN 2020

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
I. FUELS				
Total:	46,677,178,844	50,014,264	16,360,677,767	16,234,930
Natural gas	Data not available due to the confidentiality of the information			
Crude oil	25,373,392,912	30,696,964	188,527,748	218,727
Petroleum products	7,132,023,794	12,076,142	2,893,762,555	4,600,051
Hard coal, including:	12,830,927,582	4,049,201	4,648,480,578	1,957,619
- anthracite	312,703,386	154,521	52,105,758	34,455
- humic, coke, nonintegrated (coke coal)	1,766,509,519	1,026,351	2,657,454,147	1,176,150
- humic without coke, powder, nonintegrated (energy coal)	8,813,447,796	2,376,208	452,194,054	213,951
- other (without anthracite and humic) (energy coal)	1,930,190,833	489,000	1,465,099,177	520,859
- briquet	8,076,048	3,121	21,627,442	12,203
Brown coal	159,913,342	64,500	56,237,350	8,874
Coal gas other than from crude oil	391	104	6,632	95
Chemical products	285,732,027	475,103	1,774,676,087	1,867,502
Coke and semi-coke	192,410,133	133,290	6,346,240,189	5,467,599
Products from ennobled coal	71,005,725	1,424,546	91,887,491	1,293,787
Bitumen and natural asphalt, bituminous schist	342,245,337	991,627	249,154,181	764,090
II. METALS				
Total:	9,314,977,694	23,822,012	3,863,000,647	28,605,998
Aluminum, including:	1,053,186,163	6,347,006	513,769,778	2,803,347
- ores and concentrates	69,112,130	55,561	199,905	658
- wastes containing Al	3,068,364	7,620	11,682,744	25,516
- non-alloys, non-processed	191,494,777	1,341,495	38,303,332	282,142
- alloys	477,552,728	3,758,500	171,787,720	1,157,606
- wastes and scrap	186,641,840	771,965	275,402,701	1,276,540
- powders and flakes	1,072,341	16,742	2,701,408	32,116
- compounds	124,243,983	395,123	13,691,968	28,770
Antimony, including:	1,021,120	25,553	89,758	2,198
- non-processed, powders, wastes, scrap	70,385	1,805	46,584	1,296
- compounds	950,735	23,748	43,174	902
Barium (see: Strontium and barium or barium compounds in: Chemicals)				
Bismuth:				
- non-processed., powders, scrap	19,067	528	4,419	108
Chromium, including:	11,739,625	42,072	2,788,370	7,425
- ores and concentrates	10,096,580	15,055	166,740	270
- non-processed, alloys, powders, scrap	123,527	4,035	2,356,338	4,103
- compounds	1,519,518	22,982	265,292	3,052
Tin, including:	8,657,984	288,101	3,251,851	255,648
- ores and concentrates	133,443	1,303	0	0
- ash and remains containing Sn	2,463,029	48,817	0	0
- non-alloys	818,108	58,762	3,230,506	254,492
- alloys	1,819,807	70,748	4,512	408
- wastes and scrap	3,404,053	107,135	9,507	148
- compounds	19,544	1,336	7,326	599
Zinc, including:	303,672,409	1,192,738	109,708,347	891,033
- ores and concentrates	198,672,555	477,255	8,287,113	1,590
- ash and remains containing mainly Zn	24,675,332	66,110	6,665,361	47,030
- non-alloy	33,722,086	320,737	67,970,753	633,531
- alloys	12,965,444	135,584	1,734,856	17,653
- wastes and scrap	3,377,066	20,856	8,996,808	63,577
- powders, dust and flakes	6,706,041	42,660	1,348,200	8,115

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
- compounds	23,553,885	129,536	14,705,256	119,537
Zirkon, including:	1,902,156	13,730	2,243	23
- ores and concentrates	1,893,209	13,350	2,243	23
- non-processed, powders, wastes, scrap	8,947	380	0	0
Galium, indium, thallium:				
- non-processed, scrap, wastes, powders	372	316	7	10
Germanium, including:	87,471	3,723	5	52
- non-processed, scrap, wastes, powders	6	18	5	30
- compounds	87,465	3,705	0	22
Hafnium:				
- non-processed, scrap	0	0	0	1
Iridium, osmium, ruthenium:				
- raw, powders	12	1,724	7	1,306
Cadmium, including:	278	10	6,500	129
- non-processed, scrap, powders	27	3	0	0
- compounds	251	7	6,500	129
Cobalt, including:	27,794	4,565	8,613	1,218
- ores and concentrates	1	3	0	0
- non-processed, powders, wastes, scrap	8,497	2,407	1,694	508
- compounds	19,296	2,155	6,919	711
Lithium:				
- compounds	335,739	11,623	71,325	2,342
Magnesium, including:	141,293,527	231,256	54,445,900	58,790
- metallic, non-processed	7,471,325	72,406	340,669	2,960
- scrap, wastes, powders	1,248,052	11,622	3,597,758	22,135
- compounds	132,574,150	147,227	50,507,473	33,695
Manganese, including:	130,699,465	171,511	105,892,554	79,693
- ores	117,174,720	82,771	105,398,303	74,869
- non-processed, scrap, wastes, powders	1,706,981	11,664	118,054	851
- compounds	11,817,764	77,077	376,197	3,973
Alkalic metals (excluding sodium)	172	25	169	6
Precious metals, including:	6,182,127	2,246,005	8,861,869	6,801,218
- ores and concentrates	200	18	0	0
- wastes, scrap (excluding Au, Pt)	2,437,248	893,507	4,196,704	1,505,456
- non jewelry products (excluding Au, Pt), catalysts	650,498	83,413	70,575	42,770
- compounds	3,094,181	1,269,067	4,594,590	5,252,992
Rare earth elements;	456,762	19,397	57,186	8,539
Including:				
- yttrium, scandium (unresolved) non-alloy, not mixed., mixtures, alloys	5,745	177	0	20
- cerium	451,017	19,220	57,186	8,519
- compounds	449,555	19,039	55,323	8,323
- Fe-Ce alloys	1,462	181	1,863	197
Copper, including:	308,159,795	4,119,331	394,179,066	8,757,031
- ores and concentrates	127,221,516	1,157,772	120	1
- wastes containing Cu	19,741	218	1,190,357	6,877
- copper mattes and cement Cu	4,893	27	1,846,393	12,403
- unrefined (anodes for electro-refining)	6,417,050	181,795	82,275	236
- refined (cathodes etc.)	16,750,549	380,137	291,764,486	7,110,355
- alloys (brass, bronze, alpaca etc.; transitional alloys)	2,418,924	46,438	2,788,043	60,845
- wastes, scrap	85,633,192	1,660,921	36,946,217	728,419
- wastes and alloys scrap	61,118,208	605,052	49,001,519	737,916
- powders and flakes	254,611	12,810	782,918	27,938
- compounds	8,321,111	74,161	9,776,738	72,040

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
Molybdenum, including:	2,608,468	50,705	1,299,391	58,443
- ores and concentrates	296,736	13,553	2,000	148
- non-processed, wastes, scrap	173,309	4,937	101,220	1,981
- powders	932	258	30	22
- compounds	2,137,491	31,956	1,196,141	56,292
Nickel, including:	6,125,690	324,645	5,001,150	92,110
- non-alloy and indirect metallurgical products	4,343,148	223,986	562,242	29,160
- non-processed alloys	188,456	36,415	12,262	345
- wastes and scrap of non-alloy	323,323	6,451	119,666	2,885
- wastes and alloys scrap	183,333	4,507	1,717,123	27,129
- powders and flakes	111,493	10,892	12,018	873
- compounds	975,937	42,394	2,577,839	31,719
Niobium and rhenium:				
- non-processed, scrap, wastes, powders	252	198	1,476	5,019
Lead, including:	77,719,455	592,873	92,044,555	625,809
- ores and concentrates	738,841	4,600	21,008,705	67,220
- wastes containing Pb	3,372	132	204,611	941
- refined and unrefined, non-processed	57,721,294	448,352	43,089,726	325,099
- alloys	8,048,879	76,236	23,241,639	205,083
- wastes and scrap	8,770,733	42,856	3,378,601	17,631
- powders and flakes	5	4	208	19
- compounds	2,436,331	20,694	1,121,065	9,815
Radioactive elements (unresolved)	4,567	49,413	18,140	77,072
Palladium:				
- raw and in the form of powder	3,431	965,658	67	19,259
Platinum, including:	177,558	569,340	224,412	275,075
- raw, in the form of powder	2,579	292,364	69	8,246
- wastes, scrap	173,091	40,054	180,510	244,188
- catalysts	1,888	236,922	43,833	22,641
Rhodium:				
- raw, in the form of powder	745	882,036	11	13,132
Mercury:				
- metallic	13,603	389	0	0
Sodium:				
- metallic	8,413	465	548	33
Silver, including:	264,219	119,748	1,347,663	3,351,702
- raw and in the form of semi-product	237,911	98,241	1,342,421	3,349,053
- powder	889	4,211	0	0
- compounds	25,419	17,296	5,242	2,650
Strontium (see: Strontium and barium or compounds in: Chemicals)				
Tantalum:				
- non-processed, powders, wastes, scrap	444	23	31,823	346
Thorium:				
- non-processed, powders, wastes, scrap	13,848	244	129,847	378
Titanium, including:	182,607,867	968,279	27,811,769	278,487
- ores and concentrates	95,322,618	85,601	1,000	7
- wastes containing Ti	25,855	127	0	0
- non-processed, powders, wastes, scrap	1,546,513	13,826	1,752,474	21,626
- compounds	85,712,881	868,726	26,058,295	256,855
Uranium:				
- compounds, alloys, ceramic products depleted in U-235	0	1	0	0
Vanadium:	273	50	99	5
- non-processed, wastes, powders	5	9	60	2
- compounds	268	40	39	3
Calcium:				

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
- metallic	661,250	6,853	44,471	426
Tungsten, including:	18,069	3,732	818,976	40,135
- non-processed, powders, wastes, scrap	17,310	3,542	164,928	8,439
- compounds	759	191	654,048	31,695
Gold, including:	1,197	148,045	50,927	406,706
- powder	0	159	2	603
- raw other than powder	545	109,535	1,130	264,040
- wastes, scrap	48	6,054	49,754	141,974
- compounds	604	32,298	41	89
Iron, including:	6,377,517,926	4,329,125	2,426,352,754	3,685,707
- ores and concentrates	5,208,821,727	1,984,992	50	1
- wastes rich in Fe	5,471,258	554	428,200	157
- non-alloy pig iron	193,339,649	270,468	60,394,431	96,872
- alloy pig iron	328,400	112	0	0
- ferroalloy	184,636,940	901,797	121,395,738	554,864
- products from the direct deoxidation of ores	1,526,875	1,106	10	0
- Fe of purity > 99.94%	50,454	207	399,146	3,022
- wastes and scrap	703,551,584	727,070	2,215,249,492	2,839,547
- pellets and powders, pig cast iron and steel	23,958,392	83,204	13,058,217	39,115
- compounds	55,832,647	359,614	15,427,470	152,129
Other metal ores	13	4	2	0
Wastes from metals metallurgy	698,835,482	85,172	114,524,424	5,037
III. CHEMICALS				
Total:	6,174,326,449	6,525,211	4,359,337,318	4,806,804
Arsenic	35,004	340	19,000	163
Barium, including:	18,785,033	28,533	1,005,063	1,157
- barite	15,882,521	20,368	849,031	586
- compounds	2,902,512	8,164	156,032	571
Boron, including:	15,188,147	39,116	7,949,515	16,339
- boron	13,002	130	6,672	35
- natural borate minerals	5,619,014	8,077	5,462,181	8,106
- compounds	9,556,131	30,909	2,480,662	8,199
Bromine, including:	1,188,999	7,944	992,100	10,939
- bromine	5,230	234	360	36
- compounds	1,183,769	7,710	991,740	10,903
Fluorine, including:	8,213,971	29,224	876,219	2,081
- fluorine	241	17	0	0
- fluorite	5,812,925	9,286	703,575	1,054
- compounds	2,400,805	19,920	172,644	1,027
Phosphorus, including:	1,254,339,135	790,373	127,683,120	322,349
- phosphorus	27,978,113	287,628	8,414,750	100,055
- phosphorites	1,175,002,175	359,319	1,490,217	301
- phosphates fertilizers	17,420,932	20,576	68,124,002	53,431
- compounds	33,937,915	122,850	49,654,151	168,561
Helium	250,906	52,114	540,384	240,500
Iodine, including:	52,791	5,474	13,435	2,005
- iodine	7,733	1,165	3,726	595
- compounds	45,058	4,309	9,709	1,410
Carbide	10,461,240	28,394	216,511	977
Silica (siliceous rocks, diatomaceous earth, rottenstone, diatomaceous rock)	5,561,195	13,094	216,156	397
Silicon, including:	128,278,312	897,221	86,570,583	430,092
- silicon	31,246,037	212,928	5,609,181	43,092
- compounds	97,032,275	684,294	80,961,402	387,000
Fertilizers, including:	2,538,859,805	2,438,423	2,718,334,919	2,702,787
- nitrogen	1,467,712,152	1,126,487	1,978,171,854	1,611,717
- multi-compound	1,071,147,653	1,311,936	740,163,065	1,091,070
Mineral pigments, ochre	555,109	2,169	15,969	59
Potassium:	1,117,250,121	1,253,642	35,294,878	80,450

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
- potassium fertilizers	1,066,067,015	1,097,100	22,092,819	30,280
- compounds	51,183,106	156,542	13,202,059	50,170
Selenium and tellurium, including:	204,530	10,005	464,069	8,963
- selenium	84,214	3,049	20,424	1,095
- tellurium	3,813	885	0	0
- compounds	116,503	6,071	443,645	7,868
Sulfur, including:	71,468,147	84,772	540,078,843	194,346
- iron pyrites	263,880	1,177	141,441	218
- raw or unrefined	105,432	264	8,878,450	2,514
- refined	971,047	770	103,596,239	94,846
- sublimed or precipitated, colloid	9,373	104	6,795,796	3,066
- sulphuric acid, oleum	13,392,852	9,557	232,446,854	37,518
- compounds	56,725,563	72,899	188,220,063	56,185
Sodium, including:	865,180,811	602,973	808,560,039	746,882
- rock salt for chemical processing	254,814,139	58,832	1,591,610	2,404
- denatured salt for industrial purposes	8,874,116	8,729	16,420,610	11,675
- food salt for people	56,915,409	34,279	27,075,688	16,227
- food salt for animals	154,723,804	30,950	219,182,079	88,103
- brine	104,522	3,266	320,732	1,525
- compounds	389,748,821	466,917	543,969,320	626,948
Strontium and barium, including:	952,886	5,802	160,175	999
- strontium and barium	38,900	913	10,000	313
- Sr compounds	913,986	4,889	150,175	686
Calcium:				
- compounds	138,453,193	241,400	30,506,515	46,317
IV. ROCKS				
Total:	9,089,182,774	3,444,364	4,889,358,660	3,285,062
Bentonites	256,593,082	79,074	42,366,493	50,884
Cement, including:	1,699,935,958	459,898	430,328,696	283,144
- cements	1,598,521,388	440,095	338,420,098	260,214
- cement clinker	101,414,570	19,804	91,908,598	22,930
Dolomite:				
- raw, burned, consolidated	184,762,763	23,228	18,771,876	8,277
Gypsum, including:	215,491,368	122,883	671,395,994	366,288
- gypsum, anhydrite	17,307,175	4,694	199,428,594	21,720
- gypsum plasters	79,819,694	42,676	54,339,073	27,776
- gypsum, construction products	118,364,499	75,513	417,628,327	316,792
Clay (excluding refractory and foundry), including:	117,467,714	199,120	11,974,460	9,932
- other clays	90,184,963	29,754	701,388	1,821
- andalusite, cyanite, sillimanite, mullite	16,487,578	159,115	19,000	91
- chamotte and dinas earth	10,795,173	10,251	11,254,072	8,019
Natural graphite	9,236,175	92,867	119,575	1,718
Dimension and crushed stones, including	3,549,638,542	886,518	1,223,355,491	271,931
- Dimension stones:	395,092,950	576,591	217,248,976	208,783
- crude or roughly worked	153,149,263	176,303	157,395,695	61,447
- cutted to blocks and plates of a maximum thickness equal 25 cm	3,204,217	5,193	4,579,194	5,582
- building elements	229,466,118	393,012	50,113,732	141,419
- other	9,273,352	2,083	5,160,355	334
- Crushed stones:	3,154,545,592	309,927	1,006,106,515	63,148
- pitchers, curbs etc.	46,969,165	26,619	62,750,594	25,199
- crushed aggregates	3,107,576,427	283,308	943,355,921	37,949
Gemstones and decorative stones non-processed, including:	25,549	29,776	3,125	10,964
- diamonds	4,201	23,050	1	529
- other	21,348	6,726	3,124	10,435
Kaolin, including:	142,105,010	84,821	25,849,540	15,177
- raw	80,170,418	63,593	14,227,007	7,030

Mineral raw materials	Import		Export	
	Quantity (kg)	Value (PLN thousand)	Quantity (kg)	Value (PLN thousand)
- burned	61,934,592	21,228	11,622,533	8,147
Corundum and other abrasives, including:	19,168,884	17,281	6,778,492	12,536
- corundum, emery, garnet, raw and preliminary processed	19,148,463	16,211	6,778,098	12,483
- ash and powder from diamonds and from other natural stones	20,421	1,070	394	53
Chalk	51,547,951	25,789	257,694,861	18,097
Natural aggregates, including:	1,256,874,810	42,919	255,527,075	16,516
- sands (fine aggregates)	511,026,354	9,816	68,838,284	8,674
- gravel (coarse aggregates)	745,848,456	33,103	156,688,791	7,842
Quartz	472,970	1,199	631,914	590
Quartzite	30,378,775	2,482	14,064,383	3,538
Insulating materials	158,905,881	450,611	306,978,762	1,411,867
Refractory materials, including:	505,166,998	383,578	114,727,008	414,328
- magnesite	32,496,395	82,918	336,516	1,207
- refractory clay	417,220,531	115,793	2,306,487	2,770
- refractory mass and grounds	51,532,418	173,607	79,522,995	239,789
- products containing magnesite, dolomite or chromite	3,917,654	11,260	32,561,010	170,562
Mica, including:	2,526,095	22,305	59,373	1,482
- raw, powder	2,192,673	6,944	41,367	482
- mica products	333,422	15,361	18,006	1,001
Minerals and rocks of technical importance	274,160,702	306,415	106,810,332	262,544
Natural polishing materials:				
- raw pumice and other	923,613	1,561	173,798	3,738
Siliceous and quartzitic (glass) sands	28,036,365	26,793	284,257,742	47,288
Feldspar	400,761,842	67,295	217,851	1,741
Talc:				
- talc, steatite	45,800,661	70,758	1,216,370	2,437
Peat and peat products	289,527,601	102,786	111,704,956	56,587
Lime:				
- limestone flux, lime	139,201,066	47,192	1,146,055,449	70,045