

Production and Uses of Blast Furnace Slag in Japan

(Unit: metric kilo ton)

Fiscal Year	Slag Type	Production	Uses						Total
			Road	Cement	Soil improvement	Civil	Concrete Aggregate	Others	
2000	Air-Cooled	6,625	3,968	1,677		702	225	361	6,933
	Water Granulated	16,874	128	13,206	676	1,038	1,293	400	16,741
	Total	23,498	4,096	14,883	676	1,740	1,518	761	23,674
2001	Air-Cooled	6,202	3,723	1,385	30	750	220	340	6,448
	Water Granulated	17,095	177	13,137	201	1,144	1,635	338	16,632
	Total	23,297	3,900	14,522	231	1,894	1,855	678	23,080
2002	Air-Cooled	5,884	4,130	888		563	348	338	6,267
	Water Granulated	18,321	107	14,048	339	1,378	2,105	274	18,251
	Total	24,205	4,237	14,936	339	1,941	2,453	612	24,518
2003	Air-Cooled	6,041	4,279	903	135	536	388	319	6,559
	Water Granulated	18,318	80	13,579	19	1,194	2,340	234	17,446
	Total	24,359	4,359	14,482	154	1,730	2,728	553	24,005
2004	Air-Cooled	5,361	4,063	643	493	523	373	343	6,438
	Water Granulated	19,072	102	14,916	0	1,268	2,372	225	18,883
	Total	24,433	4,165	15,559	493	1,791	2,745	568	25,321
2005	Air-Cooled	4,928	4,060	602	0	144	395	338	5,539
	Water Granulated	19,830	90	16,128	0	932	2,813	245	20,209
	Total	24,758	4,149	16,731	0	1,077	3,208	583	25,747
2006	Air-Cooled	4,358	4,087	583	3	153	340	347	5,513
	Water Granulated	20,411	150	16,274	0	798	3,148	225	20,595
	Total	24,769	4,238	16,857	3	951	3,488	571	26,109
2007	Air-Cooled	4,434	3,698	360	34	136	266	345	4,839
	Water Granulated	21,003	124	16,311	1	1,018	3,028	238	20,720
	Total	25,437	3,821	16,671	35	1,154	3,295	584	25,559
2008	Air-Cooled	4,094	3,577	312	29	128	295	333	4,675
	Water Granulated	18,784	164	15,638	110	1,117	2,390	196	19,615
	Total	22,877	3,740	15,950	139	1,245	2,686	529	24,289
2009	Air-Cooled	4,124	3,133	272	13	126	250	313	4,107
	Water Granulated	17,551	121	14,153	387	567	1,785	206	17,218
	Total	21,675	3,254	14,425	400	693	2,035	519	21,325
2010	Air-Cooled	5,085	3,230	178	16	218	272	449	4,362
	Water Granulated	19,839	138	15,511	438	1,207	1,688	220	19,202
	Total	24,924	3,368	15,689	454	1,426	1,959	669	23,564
2011	Air-Cooled	4,655	3,795	295	148	192	292	454	5,177
	Water Granulated	19,505	156	16,700	232	1,590	1,661	281	20,620
	Total	24,160	3,951	16,994	381	1,782	1,953	735	25,797
2012	Air-Cooled	4,590	3,403	320	36	431	302	364	4,855
	Water Granulated	20,049	174	17,898	29	959	1,710	260	21,030
	Total	24,639	3,577	18,217	65	1,390	2,012	624	25,885
2013	Air-Cooled	4,459	3,435	313	79	120	329	348	4,626
	Water Granulated	20,811	273	18,327	9	346	2,049	242	21,245
	Total	25,271	3,708	18,640	88	466	2,378	590	25,871
2014	Air-Cooled	4,909	3,762	329	8	490	349	375	5,313
	Water Granulated	20,272	273	17,959	2	299	1,959	272	20,764
	Total	25,182	4,036	18,288	10	788	2,308	647	26,077
2015	Air-Cooled	4,376	3,545	215	25	244	318	360	4,707
	Water Granulated	19,686	251	17,595	2	157	1,841	251	20,097
	Total	24,062	3,797	17,810	27	401	2,159	611	24,804
2016	Air-Cooled	4,140	3,111	237	44	223	347	334	4,297
	Water Granulated	19,261	233	17,286	0	196	1,583	302	19,600
	Total	23,401	3,345	17,523	44	420	1,930	636	23,897
2017	Air-Cooled	3,596	2,941	283	26	163	317	335	4,065
	Water Granulated	19,436	270	17,503	0	427	1,462	242	19,905
	Total	23,032	3,211	17,786	26	590	1,778	578	23,970
2018	Air-Cooled	3,815	2,889	380	5	279	263	241	4,057
	Water Granulated	18,922	233	17,681	6	273	1,332	252	19,776
	Total	22,737	3,122	18,061	11	552	1,595	492	23,833
2019	Air-Cooled	3,647	2,438	276	4	96	265	269	3,349
	Water Granulated	19,105	265	17,627	3	64	1,229	267	19,454
	Total	22,752	2,703	17,903	7	160	1,494	535	22,803
2020	Air-Cooled	2,659	2,368	163	3	141	217	218	3,111
	Water Granulated	16,356	229	15,294	3	70	1,081	275	16,952
	Total	19,015	2,598	15,458	5	211	1,298	493	20,063
2021	Air-Cooled	3,155	2,350	146	7	117	61	183	2,862
	Water Granulated	18,661	232	17,543	0	81	937	257	19,050
	Total	21,815	2,582	17,689	7	198	998	439	21,912

Source: Nippon Slag Association