

Section 5 Slag, Refractory(Powder)

Number	Name	Chemical Composition(Percent)													Unit Size (in g)
		SiO ₂	MnO	P ₂ O ₅	S	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	Al ₂ O ₃	TFe	F	Cr ₂ O ₃	
NCS HC 11801	Blast Furnace Slag	34.31	0.34	0.012	0.97	1.52	39.02	8.12	0.47	0.41	13.83	0.411	(0.062)	60	
NCS HC 11802	Blast Furnace Slag	32.25	0.51	0.0074	0.95	0.706	40.07	9.17	0.43	0.47	14.46	0.262	(0.14)	60	
NCS HC 11803	Electric Furnace Slag	53.43	0.35	0.006	0.034	0.079	5.55	28.96	0.19	0.2	3.15	5.75	(0.033)	0.77	60
Number	Name	Chemical Composition(Percent)												Unit Size (in g)	
		TFe	SiO ₂	Al ₂ O ₃	MnO	FeO	TiO ₂	MgO	TCa	P ₂ O ₅	F	CaF			
NCS HC 13804	Converter Slag	13.38	14.91	1.78	1.86	12.33	0.42	9.28	37.64	1.02		1.41		50	
NCS HC 13805	Open Hearth Slag	34.33	8.91	3.92	2.01	36.55	0.32	21.15		0.87				50	
NCS HC 13806	Electric Furnace Slag	13.11	21.35	4.00	13.16	15.25	0.18	15.18	16.22	0.125	0.17			50	
Number	Name	Chemical Composition(Percent)									Unit Size (in g)				
		SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	K ₂ O	Na ₂ O	TiO ₂	P					
NCS HC 14807	Mullite	51.43	43.62	1.14	0.23	0.21	1.62	0.46	0.65	0.062				60	
NCS HC 14808	Mullite	37.41	57.47	0.46	0.15	0.14	1.69	0.46	1.45	0.022				60	
NCS HC 14809	Mullite	21.81	72.39	0.93	0.19	0.42	0.24	0.16	3.64	0.043				60	
Number	Name	Chemical Composition(Percent)							Unit Size (in g)						
		C	SiO ₂	Mn	P	S	Fe								
NCS HC 15804	Manganese-rich slag	0.014	25.16	44.42	0.0032	0.32	0.22						100		
Number	Name	Chemical Composition(Percent)											Unit Size (in g)		
		TFe	SiO ₂	Al ₂ O ₃	CaO	MgO	MnO	TiO ₂	P ₂ O ₅	S	TCa				
NCS HC 18806	Blast Furnace Slag	0.60	32.75	14.11	38.84	8.46	0.30	2.63	0.008	1.13				100	
NCS HC 18807	Blast Furnace Slag	1.10	33.04	16.48	35.77	8.77	0.74	0.73	0.009	0.90				100	
NCS HC 18808	Converter slag	24.55	13.44	1.25		11.66	3.34	2.22	2.00	0.13	24.10			100	
NCS HC 18809	Slag	0.30	16.50	21.94		6.55	0.18	1.03	0.024	0.69	35.21			100	
Number	Name	Chemical Composition(Percent)													Unit Size (in g)
		TFe	SiO ₂	Al ₂ O ₃	MnO	P	S	TiO ₂	MgO	CaO	V ₂ O ₅	K ₂ O	Na ₂ O		
NCS HC 19805	VTi Blast Furnace Slag	0.80	22.67	13.85	0.74		0.234		9.05	25.57	0.44			100	
NCS HC 19805a	VTi Blast Furnace Slag	2.31	26.30	14.46	0.757	0.0060	0.390	19.98	8.82	25.37	0.347	0.740	0.258	100	
NCS HC 19805b	VTi Blast Furnace Slag	1.28	25.41	13.55	0.607	0.0036	0.477	22.35	7.48	27.28	0.272			100	
Number	Name	Chemical Composition(Percent)													Unit Size (in g)
		TFe	SiO ₂	Al ₂ O ₃	CaO	MgO	MnO	P	S	V ₂ O ₅	TiO ₂	Cr ₂ O ₃			
NCS HC 19813	High-Titanium Slag	6.43	5.50	2.64	1.52	5.28	1.08		0.118		77.66			100	
NCS HC 19814	High-Titanium Slag	1.08	4.13	3.04	1.83	7.27	0.74		0.247		84.94			100	
NCS HC 19815	High-Titanium Slag	1.02	1.92	2.62	0.287	2.67	1.21		0.166		94.69			100	
NCS HC 19817	V Slag	30.48	16.90	3.84	1.96	3.34	6.87	0.054	0.054	16.18	10.87	2.40		100	
NCS HC 19818	V Slag	28.96	15.93	4.05	1.57	3.28	7.80	0.037	0.053	17.69	11.53	3.03		100	
NCS HC 19819	V Slag	30.08	15.79	4.15	1.79	3.41	8.36	0.026	0.201	2.20	11.37	2.60		100	
NCS HC 19820	V Slag	32.30	16.47	3.98	2.12	3.37	7.36	0.040	0.195	1.78	10.80	2.00		100	
NCS HC 19821	VTi Slag	0.695	1.13	56.53	9.01	27.14	0.081	0.013	0.013	3.18				100	
NCS HC 19822	VTi Slag	0.442	0.570	65.99	10.20	18.20	0.060	0.006	0.013	3.41				100	
Number	Name	Chemical Composition(Percent)								Unit Size (in g)					
		Mn	Fe	P	SiO ₂	Al ₂ O ₃	CaO	MgO	S						
NCS HC 25801	Rich Slag-Manganese	35.31	1.77	0.56	33.47	1.91	7.79	3.99	0.66					50	
Number	Name	Chemical Composition(Percent)													Unit Size (in g)
		S	SiO ₂	CaO	TCa	MgO	Al ₂ O ₃	TFe	K ₂ O	Na ₂ O	MnO	P ₂ O ₅	TiO ₂	FeO	
NCS HC 28822	Slag	1.13	31.54	38.01		10.86	16.19	0.317	0.535	0.369	0.47	0.014	1.39	0.44	50g
NCS HC 28823	Slag	0.418	15.37		24.94	8.14	11.26	8.5	0.082	0.139	0.882	0.222	1.25	5.74	50g
NCS HC 28824	Slag	0.099	15.42		30.49	5.74	1.77	18.4	0.08	0.043	2.63	1.82	0.744	13.91	50g
NCS HC 28822	Slag														
NCS HC 28823	Slag	4.14													
NCS HC 28824	Slag	0.34													

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Number	Name	Chemical Composition(Percent)								Unit Size (in g)				
		SiO ₂	TCa	Na ₂ O	Al ₂ O ₃	MgO	FC	TC	F*					
NCS HC 26801	Continuous Casting mold powder	18.96	12.89	9.86	16.99	1.39	18.14	19.97	4.47	50				
NCS HC 26803	Continuous Casting mold powder	30.1	30.78	0.52	2.14	1.3	4.06	5.98	10.59	50				
NCS HC 26804	Continuous Casting mold powder	34.95	19.13	4.99	5.3	0.78	14.49	15.86	5.15	50				
NCS HC 26805	Continuous Casting mold powder	41.31	21.46	4.07	6.93	3.26	1.57	3.06	4.79	50				
Number	Name	Chemical Composition(Percent)								Unit Size (in g)				
		TFe	CaO	SiO ₂	MgO	Al ₂ O ₃	MnO	TiO ₂	P ₂ O ₅		S			
NCS HC 28803	Blast Furnace Slag	0.92	36.26	31.82	9.92	16.85	0.78	0.52	0.018	0.75	60			
NCS HC 28804	Blast Furnace Slag	2.01	37.13	31.18	7.52	16.26	1.23	0.58	0.043	0.79	60			
NCS HC 28805	Blast Furnace Slag	0.76	39.20	34.91	9.27	12.80	0.090	0.42	0.012	0.90	60			
Number	Name	Chemical Composition(Percent)											Unit Size (in g)	
		S	SiO ₂	CaO	TCa	MgO	Al ₂ O ₃	TFe	K ₂ O	Na ₂ O	MnO	P ₂ O ₅		TiO ₂
NCS HC 28806	Slag	1.15	30.36	37.53		10.8	16.92	0.211	0.46	0.39	0.414	0.013	0.762	50
NCS HC 28807	Slag	0.134	14.54		32.32	7.27	3.67	13.54	0.033	0.057	4.06	1.72	1.13	50
NCS HC 28808	Slag	0.885	29.62	35.71		10.92	18.05	0.48	0.42	0.36	0.542	0.027	0.753	50
NCS HC 28806	Slag		FeO	F		0.35								
NCS HC 28807	Slag		10.44	0.76										
NCS HC 28808	Slag		0.55											
Number	Name	Chemical Composition(Percent)								Unit Size (in g)				
		TFe	TCa	SiO ₂	MgO	Al ₂ O ₃	MnO	TiO ₂	P ₂ O ₅		S			
NCS HC 28809	Converter Slag	13.50	32.65	15.40	7.75	4.38	2.30	1.02	1.67	0.195	60			
NCS HC 28810	Converter Slag	16.52	33.35	14.45	7.1	1.76	2.78	1.25	1.60	0.120	60			
Number	Name	Chemical Composition(Percent)											Unit Size (in g)	
		Al ₂ O ₃	CaO	MgO	P ₂ O ₅	Fe ₂ O ₃	TiO ₂	MnO	SiO ₂	K ₂ O	Na ₂ O	L.O.L		C
NCS HC 28811	Bauxite	46.52	0.69	0.37	0.35	14.01	1.36	0.13	22.96	0.25	0.1	12.75	0.2	50
NCS HC 28812	Bauxite	60.41	0.51	0.26	0.3	9.69	2.22	0.082	17.82	0.22	0.07	7.96	0.14	50
NCS HC 28813	Bauxite	70.28	0.37	0.18	0.25	6.64	2.85	0.053	14.2	0.2	0.051	4.57	0.099	50
NCS HC 28814	Bauxite	83.07	0.22	0.088	0.18	2.71	3.64	0.011	9.69	0.17	0.022	0.15	0.05	50
NCS HC 28815	Bauxite	88.55	0.15	0.073	0.23	1.75	3.69		0.11	0.017		0.018		50
Number	Name	Chemical Composition(Percent)											Unit Size (in g)	
		TFe	SiO ₂	CaO	MgO	Al ₂ O ₃	FeO	MnO	TiO ₂	S	P ₂ O ₅	K ₂ O		Na ₂ O
NCS HC 28816	Coverter Slag	18.66	12.8	45.02	8.23	2.07	14.24	2.75	0.7	0.12	1.99	0.033	0.13	50
NCS HC 28817	Coverter Slag	19.96	17.71	36.43	8.51	1.64	14.49	3.46	1.04	0.034	1.95	0.083	0.076	50
NCS HC 28818	Coverter Slag	21.04	18.81	37.31	5.23	1.56	17.01	3.79	1.11	0.034	1.86	0.082	0.046	50
NCS HC 28819	Coverter Slag	16.84	22.21	37.01	6.89	1.93	14.02	5.02	0.97	0.056	2.7	0.087	0.046	50
NCS HC 28820	Coverter Slag	16.56	12.35	45.44	6.91	1.52	13.87	2.29	0.65	0.12	2.28	0.032	0.091	50
NCS HC 28821	Coverter Slag	15.33	14.17	44.45	7.01	2.76	11.43	2.4	0.65	0.17	2.21	0.1	0.13	50
NCS HC 28816	Coverter Slag		Cr ₂ O ₃	V ₂ O ₅	As	Pb	Zn	F	Cd					
NCS HC 28816	Coverter Slag	0.076	0.122	0.0002	0.0002	0.0011	0.12	0.0001*						
NCS HC 28817	Coverter Slag	0.063	0.346	0.0003	0.0003	0.0014	0.059	0.0001*						
NCS HC 28818	Coverter Slag	0.079	0.35	0.0003	0.0003	0.0014	0.043	0.0001*						
NCS HC 28819	Coverter Slag	0.105	0.2	0.0001	0.0003	0.0003	0.16	0.0001*						
NCS HC 28820	Coverter Slag	0.089	0.229	0.0002	0.0035	0.003	0.18	0.0001*						
NCS HC 28821	Coverter Slag	0.12	0.186	0.0003	0.0074	0.01	0.39	0.0001*						
Number	Name	Chemical Composition(Percent)						Unit Size (in g)						
		FeO	SiO ₂	Al ₂ O ₃	CaO	Sn								
NCS HC 35801	Sn Slag	46.18	19.61	7.36	4.12	11.96	70							
NCS HC 35802	Sn Slag	22.22	37.49	9.32	19.76	2.32	70							
Number	Name	Chemical Composition(Percent)											Unit Size (in g)	
		CaO	SiO ₂	MgO	Al ₂ O ₃	TFe	FeO	MnO	TiO ₂	P ₂ O ₅	S	K ₂ O		Na ₂ O
NCS HC93801	Slag	42.52	34.91	8.1	12.09	0.63	0.78	0.13	0.56	0.01	1.15	0.52	0.27	50
NCS HC93802	Slag	25.87	22.96	5.98	30.29	2.39	3.31	1.5	9.44	0.08	0.56	0.36	0.17	50
NCS HC93803	Slag	55.59	12.22	6.91	18.02	1.05	0.61	2.18	2.78	0.036	0.021	0.069	0.034	50
NCS HC93804	Slag	22.3	31.11	16.36	4.18	10.99	11.73	5.21	6.01	0.503	0.095	0.128	0.051	50
NCS HC93805	Slag	30.86	42.4	20.5	2.14	1.7	1.94	0.2	1.95	0.038	0.023	0.24	0.061	50
NCS HC93806	Slag	50.73	8.17	3.39	23.79	9.67	7.37	0.45	0.88	0.022	0.032	0.052	0.047	50