

Blast Furnace Stacks - Reference List

Expect the best.
REFRATECHNIK

No.	Customer	Country	BF No.	Date	Lining zone	Lining method	Material amount [t]	Material quality
1	SALZGITTER AG Salzgitter	Germany	C	09/ 2004	Lower/Middle/Upper Stack	Manual	400	REFRAJETCRETE LC F-60 AR/R
2	ARCELORMITTAL Bremen	Germany	3	06/ 2005	Lower/Middle/Upper Stack	Manual	300	REFRAJETCRETE LC F-60 AR/R
3	SALZGITTER AG Salzgitter	Germany	A	08/ 2005	Lower/Middle/Upper Stack	Manual	400	REFRAJETCRETE LC F-60 AR/R
4	ROGESA Dillingen	Germany	3	01/ 2006	Tuyere Belt/Lower Stack	Manual	200	REFRAJETCRETE LC F-60 AR/R
5	ARCELORMITTAL Krakow	Poland	2	05/ 2006	Lower/Middle/Upper Stack	Manual	450	REFRAJETCRETE LC F-60 AR/R
6	NTMK Nishnij Tagil	Russia	5	05/ 2006	Lower/Middle/Upper Stack	Manual	265	REFRAJETCRETE LC F-60 AR/R
7	ARCELORMITTAL Eisenhüttenstadt	Germany	5A	11/ 2006	Middle/Upper Stack	Robotic	75	REFRAJETCRETE LC F-60 AR/R
8	SALZGITTER AG Salzgitter	Germany	B	03/ 2007	Lower/Middle/Upper Stack	Manual	205	REFRAJETCRETE LC F-60 AR/R
9	ARCELORMITTAL Lazaro Cardenas	Mexico	1	05/ 2007	Middle/Upper Stack Stave Backfilling	Manual Manual	135 75	REFRAJETCRETE LC F-60 AR/R REFRASELFCAST MC F-68 R
10	CHUSOVY STEEL Chusovoy	Russia	1	05/ 2007	Lower/Middle/Upper Stack	Robotic	205	REFRAJETCRETE LC F-60 AR/R
11	ARCELORMITTAL Bremen	Germany	3	08/ 2007	Middle/Upper Stack	Robotic	45	REFRAJET MC F-58 R
12	VOESTALPINE Linz	Austria	A	11 2007	Upper Stack	Robotic	93	REFRAJETCRETE LC F-60 AR/R

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13	ARCELORMITTAL Zenica	Bosnia	1	03/ 2008	Lower/Middle/Upper Stack	Manual	450	REFRAJETCRETE LC F-60 AR/R
14	ZAPSIB Novokuznetsk	Russia	3	04/ 2008	Lower/Middle/Upper Stack Stave Backfilling	Robotic Manual	334 30	REFRAJETCRETE LC F-60 AR/R REFRASELFCAST MC F-68 R
15	ARCELORMITTAL Asturias	Spain	A	08/ 2008	Lower Stack	Robotic	45	REFRAJETCRETE Nanobond LC F-60 AR/R
16	ARCELORMITTAL Eisenhüttenstadt	Germany	1	11/ 2008	Tuyere Belt/Bosh/Belly/Stack	Manual	300	REFRAJETCRETE LC F-60 AR/R
17	VOESTALPINE Linz	Austria	A	11/ 2008	Upper Stack	Robotic	90	REFRAJETCRETE LC F-60 AR/R
18	NISCO Nanjing	China	2	04/ 2009	Bosh/Belly Lower Stack	Manual Manual	30 65	REFRAJETCRETE LC F-60 AR/R REFRAJETCRETE LC F-60 AR/R
19	OVAKO STEEL Koverhar	Finland	1	06/ 2009	Lower/Middle/Upper Stack	Robotic	75	REFRAJET MC F-58 R
20	ROGESA Dillingen	Germany	3	09/ 2009	Lower/Middle/Upper Stack	Manual	200	REFRAJET F-55 R
21	US STEEL Kosice	Slovakia	3	12/ 2009	Lower/Middle/Upper Stack	Manual	387	REFRAJETCRETE LC F-60 AR/R
22	US STEEL Kosice	Slovakia	2	07/ 2010	Lower/Middle/Upper Stack	Manual	300	REFRAJETCRETE LC F-60 AR/R

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23	ARCELORMITTAL Eisenhüttenstadt	Germany	1	02/ 2012	Tuyere Belt/Bosh/Belly/Stack	Manual	450	REFRAJETCRETE LC F-60 AR/R
24	VOESTALPINE Linz	Austria	A	09/ 2013	Upper Stack	Robotic	120	REFRAJETCRETE LC F-60 AR/R
25	CHINA STEEL Kaohsiung	Taiwan	1	04/ 2014	Lower/Middle Stack	Manual	140	REFRAJETCRETE LC F-60 AR/R
26	AHMSA Monclova	Mexico	5	07/ 2014	Middle/Upper Stack Burden Capping	Robotic Manual	105 10	REFRAJET MC F-58 R REFRAJET BC
27	AHMSA Monclova	Mexico	6	06/ 2015	Middle Stack Upper Stack Burden Capping	Robotic Robotic Manual	30 200 5	REFAJETCRETE Nanobond S-70 AR/R REFRAJETCRETE LC F-60 AR/R REFRAJET BC
28	ARCELORMITTAL Gent	Belgium	1	10/ 2015	Tuyere Stave Backfilling	Manual Manual	105 20	REFRAJETCRETE LC F-60 AR/R REFRASELFCAST LC F-50 R
29	CSN Volta Redonda	Brasil	2	09/ 2016	Middle Stack Upper Stack	Manual Manual	150 300	REFAJETCRETE Nanobond S-70 AR/R REFRAJETCRETE LC F-60 AR/R
30	ARCELORMITTAL Krakow	Spain	2	06/ 2016	Lower/Middle/Upper Stack Top Cone Hearth Protection	Manual Manual Manual	228 30 15	REFRAJETCRETE LC F-60 AR/R REFRAJET F-54 R REFRAJET F-30

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31	ARCELORMITTAL Temirtau	Kazakhstan	4	08/ 2016	Lower Stack Middle Stack Upper Stack Stave Backfilling Stave Backfilling Ramming Stave Joints Transition Tuyere Bosh	Manual Manual Manual Manual Manual Manual Manual	113 350 221 131 8 38 8	REFRAJETCRETE LC F-60 S-15 AR/R REFRAJETCRETE LC F-60 R REFRAJETCRETE LC F-50 R REFRASELFCAST LC F-48 R fine REFRASELFCAST LC S-75 R fine REFRAM CB S-60 R Dry REFRACAST S-75
32	ARCELORMITTAL Asturias	Spain	B	10/ 2016	Burden Capping Engineering	Manual	40	REFRACLAY 25 MCG
33	ARCELORMITTAL Asturias	Spain	A	11/ 2016	Burden Capping Engineering	Manual	40	REFRACLAY 25 MCG
34	ARCELORMITTAL Eisenhüttenstadt	Germany	5A	11/ 2016	Middle/Upper Stack Stave Backfilling Top Cone	Manual Manual Manual	190 58 48	REFRAJETCRETE LC F-60 AR/R REFRASELFCAST LC F-48 R fine REFRAJET F-55 R
35	THYSSENKRUPP Rio de Janeiro	Brasil	2	03/ 2017	Middle/Upper Stack Throat Armour Top Cone	Robotic Robotic Manual	90 102 10	REFRAJETCRETE LC F-60 S-15 AR/R REFRAJETCRETE LC F-60 S-15 AR/R REFRAJET F-55 R
36	AHMSA Monclova	Mexico	6	03/ 2017	Middle Stack Upper Stack Burden Capping	Manual Manual Manual	137 247 30	REFAJETCRETE Nanobond S-70 AR/R REFRAJETCRETE LC F-60 AR/R REFRACLAY 25 MCG

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37	ARCELORMITTAL Fos-sur-Mer	France		04/ 2017	Middle/Upper Stack Stave Backfilling Burden Capping	Robotic Manual Manual	41 16 5	REFRAJET F-40 REFRASelfCAST LC F-48 R fine REFRAJET BC
38	SALZGITTER AG Salzgitter	Germany	C	05/ 2017	Lower/Middle/Upper Stack Burden Capping	Robotic Manual	125 4	REFRAJET MC F-58 R REFRAJET BC
39	THYSSENKRUPP Rio de Janeiro	Brasil	1	07/ 2017	Middle/Upper Stack Throat Armour Top Cone	Robotic Robotic Manual	70 101 10	REFRAJETCRETE LC F-60 S-15AR/R REFRAJETCRETE LC F-60 S-15AR/R REFRAJET F-55 R
40	ARCELORMITTAL Fos-sur-Mer	France		08/ 2017	Middle/Upper Stack Stave Backfilling Burden Capping	Robotic Manual Manual	40 15 5	REFRAJET F-40 REFRASelfCAST LC F-48 R fine REFRAJET BC
41	DK Recycling Duisburg	Germany	3	08/ 2017	Tuyere/Bosh/Belly/Stack	Manual	180	REFRAJETCRETE LC F-60 AR/R
42	ARCELORMITTAL Monlevade	Brasil	A	09/ 2017	Tuyere/Bosh Belly/Stack	Manual Manual	174 127	REFRAJETCRETE Nanobond F-60 AR/R REFRAJETCRETE LC F-60 AR/R

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43	CSN Volta Redonda	Brasil	2	09/ 2017	Middle Stack	Robotic	100	REFAJETCRETE Nanobond S-70 AR/R
44	APERAM Timoteo	Brasil	2	12/ 2017	Tuyere/Bosh Belly/Stack/Hearth Protection Throat Armour Stave Backfilling Tuyere Backfilling Taphole	Manual Manual Manual Manual Manual Manual	65 108 48 25 48 21	REFAJETCRETE Nanobond S-70 AR/R REFRAJETCRETE LC F-60 AR/R REFRAJETCRETE LC F-51 AR/R REFRASELFCAST LC F-48 R fine REFRASELFCAST LC F-50 R fine REFRACAST V.015.061
45	CSN Volta Redonda	Brasil	2	09/ 2017	Tuyere/Bosh/Belly Stack	Manual Robotic	280 120	REFAJETCRETE Nanobond S-70 AR/R REFRAJETCRETE LC F-60 AR/R
46	NLMK Lipetsk	Russia	6	10/ 2017	Hearth Bottom Layer Hearth Protection Layer Center Pieces Bottom Layer Tuyere Blocks	Manual Manual Manual Manual	200 45 1 145	REFRAL S-70 R REFRAL 44 R REFRACAST LC C-80 R/TS - Preshapes REFRACAST ULC T-99 R - Preshapes
47	ARCELORMITTAL Bremen	Germany	2	11/ 2017	Lower/Middle/Upper Stack Stave Backfilling Ramming Stave Joints	Manual Manual Manual	241 65 25	REFRAJETCRETE LC F-60 AR/R REFRASELFCAST LC F-48 R fine REFRARAM AB B-70
48	SALZGITTER AG Salzgitter	Germany	A	05/ 2018	Upper Stack Backfilling Throat Armour	Robotic Robotic	30 15	REFRAJET MC F-58 R REFRACAST LC F-51 AR/R
49	ARCELORMITTAL Dabrowa Gornica	Poland	2	08/ 2018	Lower/Middle/Upper Stack	Manual	290	REFRAJETCRETE LC F-60 AR/R
50	VOESTALPINE Donawitz	Austria	1	09/ 2018	Hearth Upper Stack/Top Cone	Manual Manual	30 40	REFRAJETCRETE Nanobond C-70 S-20 AR/R REFRAJETCRETE LC F-51 AR/R

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51	TERNIUM CSA Rio de Janeiro	Brasil	2	01/ 2019	Middle Stack Upper Stack/Throat Armour Dome Gunning	Robotic Robotic Manual	74 86 14	REFRAJETRETE Nanobond C-70 S-20 AR/R REFRAJETCRETE LC F-60 AR/R REFRAJET MC F-58 R
52	SSAB Raahe	Finland		02/ 2019	Hearth/Taphole/Bosh	Manual	125	REFRAJETRETE Nanobond C-70 S-20 AR/R
53	SAINT-GOBAIN Pont-a-Mousson	Frankreich	1	03/ 2019	Bosh/Belly/Stack	Manual	180	REFRAJETCRETE LC F-60 AR/R
54	NLMK Lipetsk	Russia		04/ 2019	Stave Backfilling	Manual	328	REFRASELFCAST LC F-48 R fine
55	ARCELORMITTAL Vanderbijlpark	South Africa	2	05/ 2019	Burden Capping Supervison	Manual		
56	SSAB Raahe	Finland		06/ 2019	Stave Backfilling	Manual	42	REFRASELFCAST LC F-48 R fine
57	GERDAU ACOMINAS Ouro Branco	Brasil	1	08/ 2019	Tuyere Belt/Bosh/Belly/Stack	Manual	310	REFRAJETCRETE LC F-60 AR/R
58	DK Recycling Duisburg	Germany	3	08/ 2019	Bosh/Belly/Stack	Manual	180	REFRAJETCRETE LC F-60 AR/R
59	ROGESA Dillingen	Germany	4	08/ 2019	Top Cone	Manual	25	REFRAJET F-55 R
60	ROGESA Dillingen	Germany	5	08/ 2019	Top Cone	Manual	25	REFRAJET F-55 R

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61	TERNIUM CSA Rio de Janeiro	Brasil	2	10/ 2019	Middle Stack / Upper Stack Upper Stack / Throat Armour Burden Capping Dome Gunning	Robotic Robotic Manual Manual	145 7 5 7	REFRAJETCRETE LC F-60 AR/R REFRAJETCRETE LC F-51 AR/R REFRAJET BC REFRAJET MC F-58 R
62	HKM Duisburg	Germany	B	11/ 2019	Middle/Upper Stack	Robotic	200	REFRAJETCRETE LC F-60 AR/R
63	ARCELORMITTAL Asturias	Spain	B	11/ 2019	Burden Capping Stave Backfilling Top Cone Engineering	Manual Manual Manual	40 46 22	REFRACLAY 25 MCG REFRASELFCAST LC F-48 R fine REFRAJET F-55 R
64	ARCELORMITTAL Vitoria	Brasil	2	11/ 2019	Hearth Reprofilng/Tuyere Bosh Belly Middle/Upper Stack	Manual Manual Manual Manual	109 39 83 57	REFRAJETCRETE Nanobond C-70 S-20 AR/R REFRAJETCRETE LC S-70 AR/R REFRAJETCRETE LC F-60 S-15 AR/R REFRAJETCRETE LC F-51 AR/R
65	NTMK Nishnij Tagil	Russia	6	12/ 2019	Hearth Bottom Layer Hearth Protection Layer	Manual Manual	140 60	REFRAL S-70 R REFRAL 35
66	CSN Volta Redonda	Brasil	2	01/ 2020	Middle Stack Upper Stack/Throat Armour	Robotic Robotic	25 40	REFAJETCRETE Nanobond S-70 AR/R REFRAJETCRETE LC F-60 AR/R
67	ARCELORMITTAL Krakow	Poland	5	02/ 2020	Tuyere Belt / Bosh	Manual	100	REFRAJETCRETE Nanobond F-60 AR/R
68	ARCELORMITTAL Eisenhüttenstadt	Germany	5A	06/ 2020	Upper Stack Burden Capping	Robotic Manual	164 5	REFAJETCRETE LC F-51 AR/R REFRAJET BC

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69	SALZGITTER AG Salzgitter	Germany	C	06/ 2020	Bosh/Belly/Stack	Manual	124	REFRAJETCRETE LC F-60 AR/R
70	VOESTALPINE Linz	Austria	5	07/ 2020	Upper Stack	Robotic	70	REFRAJETCRETE LC F-51 AR/R
71	DK Recycling Duisburg	Germany	3	07/ 2020	Bosh/Belly	Manual	70 30	REFRAJETCRETE LC F-60 AR/R REFRAJETCRETE Nanobond S-70 AR/R
72	HKM Duisburg	Germany	A	08/ 2020	Middle/Upper Stack Bosh/Belly	Manual	50 50	REFRAJETCRETE LC F-60 AR/R REFRAJETCRETE LC S-50 AR/R
73	ARCELORMITTAL Gent	Belgium	1	09/ 2020	Backfilling Middle/Upper Stack Bosh/Belly	Manual Manual Manual	116 160 47	REFRASELFCAST LC F-48 R fine REFRAJET F-55 R REFRAJETCRETE LC F-60 AR/R
74	ARCELORMITTAL Dabrowa Gornica	Poland	3	08/ 2020	Upper Stack/Throat Armour Burden Capping	Manual Manual	160 43	REFRAJETCRETE Hybrid F-60 AR/R REFRAJET F-30
75	VOESTALPINE Donawitz	Austria	4	09/ 2020	Hearth Upper Stack/Top Cone	Manual Manual	25 40	REFRAJETCRETE Nanobond C-70 S-20 AR/R REFRAJETCRETE LC F-51 AR/R
76	CSN Volta Redonda	Brasil	2	10/ 2020	Bosh/Belly Stack/Throat Armour	Manual Manual	250 300	REFRAJETCRETE Nanobond S-70 AR/R REFRAJETCRETE LC F-60 AR/R
77	THYSSENKRUPP Duisburg-Schwelgern	Germany	2	11/ 2020	Bosh	Manual/Hot Repair	20	REFRAJETCRETE Hybrid F-60 AR/R
78	LULI STEEL Shouguang	China	1	01/ 2021	Tuyere Belt	Manual	30	REFRAJETCRETE Nanobond F-60 S-30 AR/R
79	QILIN STEEL Zibo	China	1	02/ 2021	Tuyere Belt	Manual	25	REFRAJETCRETE Nanobond F-60 S-30 AR/R
80	THYSSENKRUPP Duisburg-Schwelgern	Germany	2	04/ 2021	Bosh/Belly	Robotic	150	REFRAJETCRETE Hybrid F-60 AR/R
81	LIAONING Benxi	China	1	05/ 2021	Tuyere Belt	Manual Casting	50	REFRACAST Hybrid C-70 S-20 AR/R

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82	ARCELORMITTAL Eisenhüttenstadt	Germany	5A	06/ 2021	Upper Stack Burden Capping	Robotic Manual	139 5	REFRAJETCRETE LC F-51 AR/R REFRAJET BC
83	THYSSENKRUPP Duisburg-Schwelgern	Germany	1	08/ 2021	Bosh/Belly/Stack	Manual	1200	REFRAJETCRETE Hybrid F-60 AR/R
84	SALZGITTER AG Salzgitter	Germany	C	09/ 2021	Stack	Robotic	45	REFRAJETCRETE LC F-60 AR/R
85	CSN Volta Redonda	Brasil	2	10/ 2021	Upper Stack/Throat Armour	Robotic	60	REFRAJETCRETE LC F-60 AR/R
86	TSINGTUO Fujian	China	1	10/ 2021	Tuyere Belt/Hearth/Taphole	Manual	30	REFRACAST Hybrid C-70 S-20 AR/R
87	DAYE HUAXIN STEEL Daye	China	1	12/ 2021	Hearth Reprofilng/Tuyere	Manual Manual	264 1	REFRACAST Hybrid C-70 S-20 AR/R REFRACAST Nanobond S-80 AR/R
88	TSINGTUO Fujian	China	3	01/ 2022	Tuyere Belt/Bosh	Manual	50	REFRACAST Hybrid C-70 S-20 AR/R
89	DESHENG Inner Mongolia	China	1	02/ 2022	Tuyere Belt/Bosh	Manual	50	REFRAJETCRETE Hybrid C-70 S-20 AR/R
90	USIMINAS Ipatinga	Brasil	2	04/ 2022	Lower/Middle/Upper Stack	Robotic Robotic	130 80 3	REFRAJETCRETE LC F-60 AR/R REFRAJETCRETE LC F-60 S-15 AR/R REFRAJET BC
91	THYSSENKRUPP Duisburg-Schwelgern	Germany	2	05/ 2022	Upper/Middle stack	Robotic	270	REFRAJETCRETE Hybrid F-60 S-15 AR/R

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92	FERGUBEL Matozinho	Brasil	1	05/ 2022	Hearth Tuyere Belt/Bosh/Belly	Manual Manual	49 58	REFRACAST Hybrid C-70 S-20 AR/R REFRAJETCRETE LC F-60 AR/R
93	CAP Conception	Chile	1	07/ 2022	Tuyere Belt/Bosh/Belly Lower/Middle/Upper Stack Throat Armour	Manual Manual Manual	60 230 30	REFRAJETCRETE Nanobond S-70 AR/R REFRAJETCRETE LC F-60 AR/R REFRACAST LC F-60 AR/R
94	THYSSENKRUPP Duisburg-Schwelgern	Germany	2	08/ 2022	Bosh/Belly	Robotic	430	REFRAJETCRETE Hybrid F-60 S-15 AR/R
95	HKM Duisburg	Germany	A	11/ 2022	Stack	Robotic	300	REFRAJETCRETE LC F-60 AR/R
96	ARCELORMITTAL Dabrowa Gornica	Poland	3	11/ 2022	Stack	Robotic	150	REFRAJETCRETE Hybrid F-60 AR/R
97	CSN Volta Redonda	Brasil	2	12/ 2022	Stack/Throat Armour	Robotic	80	REFRAJETCRETE LC F-60 AR/R
98	DAYE HUAXIN STEEL Daye	China	2	12/ 2022	Hearth Reprofilng/Tuyere	Manual Manual	210 15	REFRACAST Hybrid C-70 S-20 AR/R REFRACAST Nanobond S-80 AR/R
99	CSN Volta Redonda	Brasil	2	05/ 2023	Tuyere, Bosh and Belly Stack/Throat Armour	Manual Manual	300 150	REFRAJETCRETE Hybrid C-70 S-20 AR/R REFRAJETCRETE LC F-60 AR/R
100	ARCELORMITTAL Dabrowa Gornica	Poland	2	06/ 2023	Hearth (blow-in lining)	Manual	85	REFRAL 35
101	USIMINAS Ipatinga (via Paul Würth)	Brasil	3	08/ 2023	Bustle Pipe Donwcomer Hot Blast Cast house civil	Manual Manual Manual Manual	50 129.6 237.4 99.3	REFRACAST F-50 REFRAJET F-55 R REFRAJET MC F-57 R REFRACAST F-35 CG
102	ARCELORMITTAL Juiz de Fora	Brasil	2	08/ 2023	Upper Stack/Throat Armour Burden Capping	Robotic Manual	20 3	REFRAJETCRETE LC F-60 AR/R REFRAJET BC
103	Luli Steel Shouguang	China	1	8 2023	taphole	Manual	15	REFRACAST Hybrid C-70 S-20 AR/R
104	CAP Conception	Chile	2	10/ 2023	Hearth, Bosh and Belly Tuyere/Upper Stack Throat Armour Top Cone	Manual Manual Manual Manual	145 82 10 40	REFRAJETCRETE Hybrid C-70 S-20 AR/R REFRAJETCRETE LC F-60 AR/R REFRACAST LC F-60 AR/R REFRAJET F-55 R
105	SAINT-GOBAIN Pont-a-Mousson	France	2	10/ 2023	Stack	Manual	46	REFRACAST Hybrid C-70 S-20 AR/R
106	ARCELORMITTAL							

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	Bremen	Germany	2	10/ 2023	Bosh, belly and stack	Manual	139.2	REFRAJETCRETE Hybrid F-60 AR/R
107	THYSSENKRUPP Duisburg-Schweglern	Germany	2	11/ 2023	Bosh/Belly	Robotic	380	REFRAJETCRETE Hybrid F-60 S-15 AR/R
108	ARCELORMITTAL Gent	Belgium	A	11/ 2023	Tuyere Backfilling staves	Manual Manual	20 60	REFRAJETCRETE LC F-60 AR/R REFRASelfCAST LC F-48 R fine
109	CSN Volta Redonda	Brasil	2	03/ 2024	Stack/Throat Armour	Robotic	70	REFRAJETCRETE LC F-60 AR/R
110	ARCELORMITTAL Eisenhüttenstadt	Germany	5A	06/ 2024	Upper Stack Burden Capping	Robotic Manual	120 5	REFRAJETCRETE LC F-50 AR/R REFRAJET BC
111	TERNIUM BRASIL Rio de Janeiro	Brasil	2	04/ 2025	Upper Stack / Throat Armour Burden Capping Dome Gunning	Robotic Manual Manual	69 3 30	REFRAJETCRETE LC F-51 AR/R REFRAJET BC REFRAJET MC F-58 R
112	TERNIUM BRASIL Rio de Janeiro	Brasil	1	04/ 2025	Upper Stack / Throat Armour Burden Capping Dome Gunning	Robotic Manual Manual	69 3 30	REFRAJETCRETE LC F-51 AR/R REFRAJET BC REFRAJET MC F-58 R
113	CSN Volta Redonda	Brasil	2	06/ 2025	Taphole monument	Manual	60	REFRAJETCRETE LC F-60 AR/R

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							22,222	