

MONOLITHIC REFRACTORIES FOUNDRY



DIE CUT

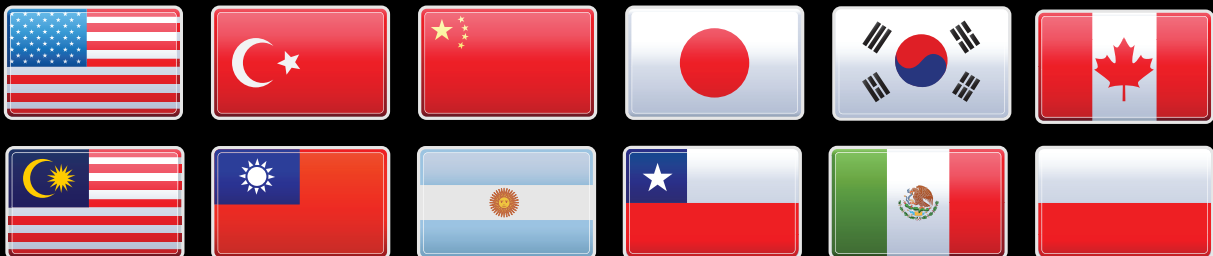
Monolithic Refractories for Metalcasting, Minerals Processing, Power Generation and Petrochemical Industries

United Refractories Company (URC) designs innovative, durable refractories focusing on customer specific needs and applications. Our technically driven products manufactured at our UNI-REF, Inc. (URI) facility include our UNI-RAM VR dry vibratables for induction furnaces, cutting edge cupola products, Rapid Fire accelerated dry-out technology, and UNI-SHOT/UNI-BRADE abrasion resistant refractory products. 40 years providing unparalleled value through outstanding quality, proven technology and customer focused service.



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FOUNDRY REFRACTORIES
CORELESS



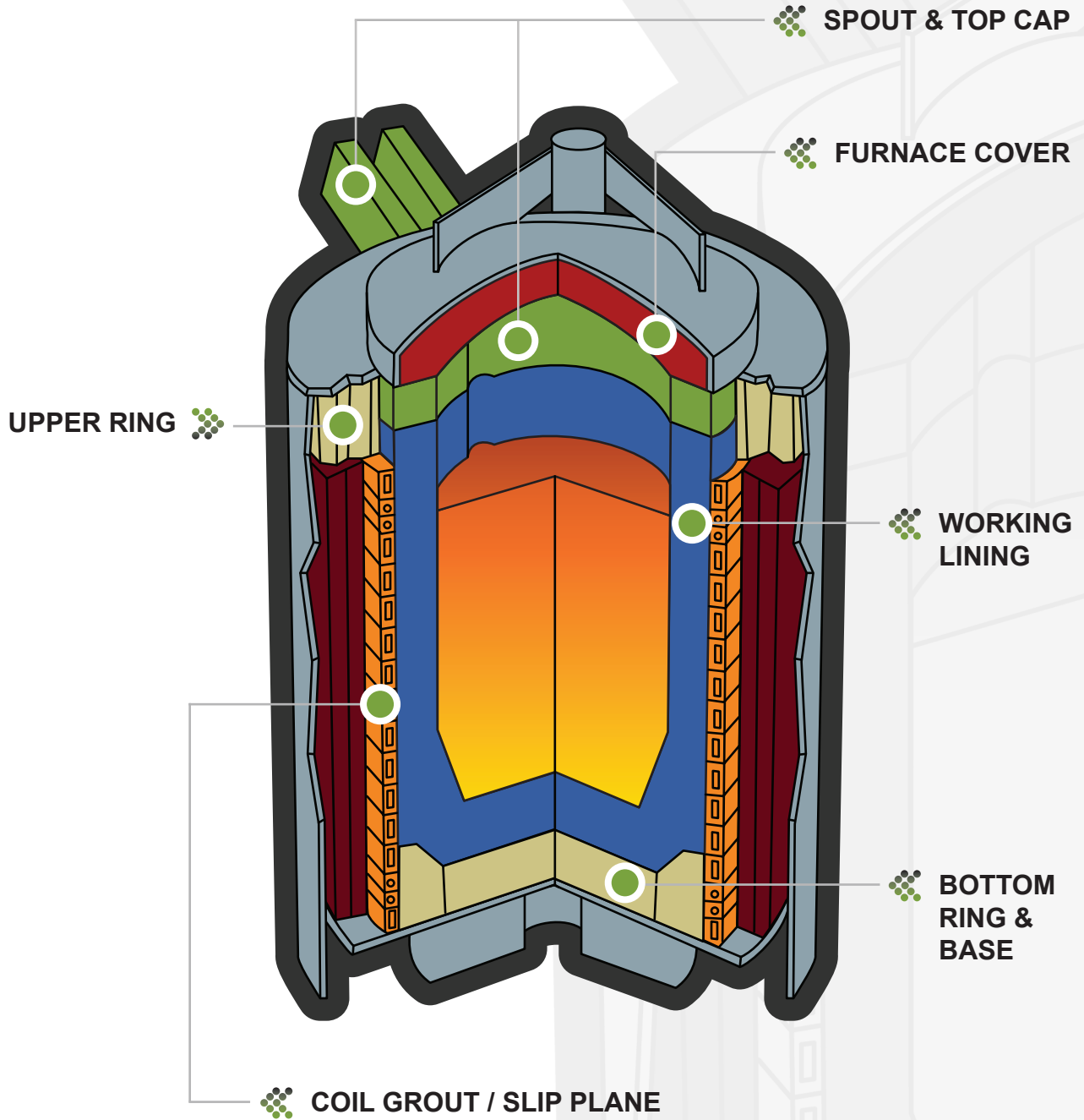
CORELESS

DIE CUT

FOUNDRY REFRACTORIES CORELESS



CORELESS



DIE CUT

CORELESS - STEEL

WORKING LINING	MAXIMUM TEMP.		MATERIAL REQ'D		CHEMICAL ANALYSIS %			
	°F	°C	Lbs/ft ³	Kg/m ³	Al ₂ O ₃	MgO	SiO ₂	Other
UNI-RAM VR-788A	3300	1820	192	3080	86.4	12.9	0.2	0.5
UNI-RAM VR-790A	3300	1820	192	3080	85.8	12.8	0.7	0.7
UNI-RAM VR-796A	3300	1820	195	3120	85.0	10.7	0.2	4.1
UNI-RAM VR-90M	3300	1820	173	2770	-	98.3	0.6	0.4
UNI-RAM VR-91M	3300	1820	162	2600	1.2	97.0	0.7	1.1
SPOUT & TOP CAP					Al ₂ O ₃	SiO ₂	P ₂ O ₅	Other
UNI-RAM VR-793A TOP CAP	3000	1650	195	3120	83.8	0.6	11.9 _{MgO}	3.7
UNI-PLAS 90HS	3200	1760	185	2960	92.3	2.8	4.7	0.2
UNI-PLAS 90FC	3200	1760	185	2960	84.1	8.9	4.7	2.3
UNI-RAM 90 PLASTER	3200	1760	175	2800	86.7	9.0	3.5	0.8
UNI-RAM 85HS	3200	1760	185	2960	80.6	11.2	5.1	3.1
UNI-RAM 85ESS	3200	1760	180	2880	77.1	15.8	3.8	3.3
UNI-RAM 85C PLASTER	3200	1760	180	2880	73.9	19.2	3.7	3.2

Note: All patching plastics and plasters are available in low phos (LP) and no phos (NP)

CORELESS - IRON

WORKING LINING	MAXIMUM TEMP.		MATERIAL REQ'D		CHEMICAL ANALYSIS %			
	°F	°C	Lbs/ft ³	Kg/m ³	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Other
UNI-SIL	3000	1650	131	2100	0.5	99.2	0.1	0.2
UNI-RAM VR-S	3000	1650	136	2180	0.5	99.2	0.1	0.2
UNI-SIL F4	3100	1700	135	2160	0.7	98.8	0.07	0.43
UNI-SIL FF-30	3100	1700	130	2080	0.7	98.0	0.08	1.22
UNI-RAM VR-611A	3100	1700	167	2670	77.4	19.6	0.6	1.7
SPOUT & TOP CAP					Al ₂ O ₃	SiO ₂	P ₂ O ₅	Other
UNI-SIL FF-30 TOP CAP	3000	1650	130	2080	0.7	98.0	-	1.22
UNI-RAM 85HS	3200	1760	185	2960	80.6	11.2	5.1	3.1
UNI-RAM 85ESS	3200	1760	180	2880	77.1	15.8	3.8	3.3
UNI-RAM BLU J	3100	1700	165	2640	67.5	25.8	4.1	2.6
UNI-RAM F	3000	1650	160	2560	51.1	42.9	3.4	2.6

CORELESS - NON FERROUS

WORKING LINING	MAXIMUM TEMP.		MATERIAL REQ'D		CHEMICAL ANALYSIS %			
	°F	°C	Lbs/ft ³	Kg/m ³	Al ₂ O ₃	SiO ₂	SiC	Other
UNI-RAM VR-740A	3000	1650	190	3040	82.6	1.6	-	12.4 MgO
UNI-RAM VR-622A	3000	1650	154	2470	65.8	24.2	5.0	5.0
UNI-RAM VR-621A	3000	1650	154	2470	65.7	24.2	5.0	5.1
UNI-RAM VR-580A	3100	1700	185	2960	69.2	2.8	23.0	5.0
UNI-RAM VR-560A	3100	1700	190	3040	88.2	4.4	4.6	2.8
UNI-RAM VR-558A	3100	1700	190	3040	87.5	4.4	4.5	3.6
UNI-RAM VR-550A	3000	1650	190	3040	86.4	5.2	4.4	4.0
UNI-SIL CU	2750	1510	135	2160	2.0	97.0	-	1.0
SPOUT & TOP CAP					Al ₂ O ₃	SiO ₂	P ₂ O ₅	Other
UNI-RAM 85HS	3200	1760	185	2960	80.6	11.2	5.1	3.1
UNI-RAM 85ESS	3200	1760	180	2880	77.1	15.8	3.8	3.3
UNI-RAM BLU J	3100	1700	165	2640	67.5	25.8	4.1	2.6
UNI-RAM F	3000	1650	160	2560	51.1	42.9	3.4	2.6

CORELESS - STEEL, IRON & NON FERROUS

FURNACE COVER, UPPER RING, BOTTOM RING & BASE	MAXIMUM TEMP.		MATERIAL REQ'D		CHEMICAL ANALYSIS %			
	°F	°C	Lbs/ft ³	Kg/m ³	Al ₂ O ₃	SiO ₂	CaO	Other
UNI-CAST 3100	3100	1700	135	2160	57.9	35.1	4.4	2.6
UNI-CAST MLX-70	3150	1730	163	2610	68.4	27.5	1.7	2.4
UNI-CAST LC-85	3300	1820	178	2850	84.3	10.1	1.5	4.1
PUMP-CAST 50C	2900	1590	143	2290	50.0	44.8	2.4	2.8
PUMP-CAST 60	3050	1680	155	2480	54.6	41.4	1.6	2.4
UNI-CAST ML-69C	3050	1680	158	2530	63.7	31.8	1.3	3.2
UNI-CAST 600	3000	1650	133	2130	51.1	41.2	4.9	2.8
COIL GROUT / SLIP PLANE					Al ₂ O ₃	SiO ₂	CaO	Other
UNI-GROUT 950	3300	1820	170	2720	93.0	0.9	4.4	1.7
UNI-GROUT 95F	3100	1700	160	2560	89.8	3.4	4.6	2.2
UNI-PAPER MICA 151	N/A	N/A	N/A	N/A	-	-	-	-
UNI-PAPER MICA 82	N/A	N/A	N/A	N/A	-	-	-	-
UNI-CLOTH	1000	540	N/A	N/A	-	-	-	-

FOUNDRY REFRACTORIES CHANNEL & PRESSURE POUR

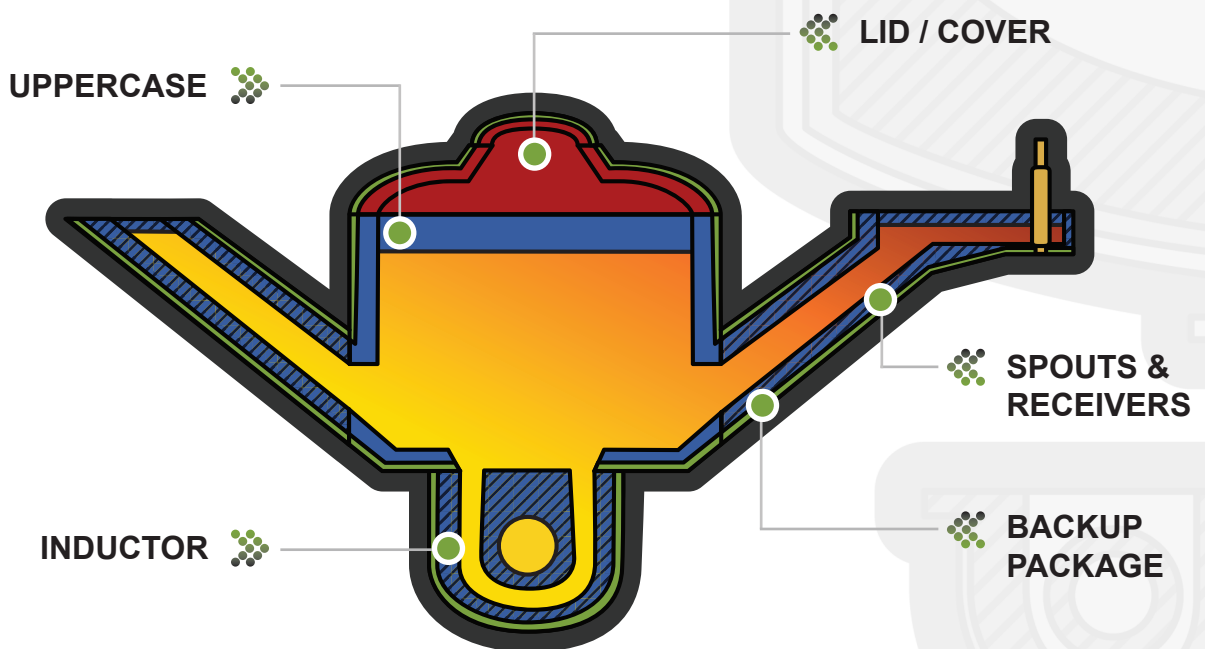
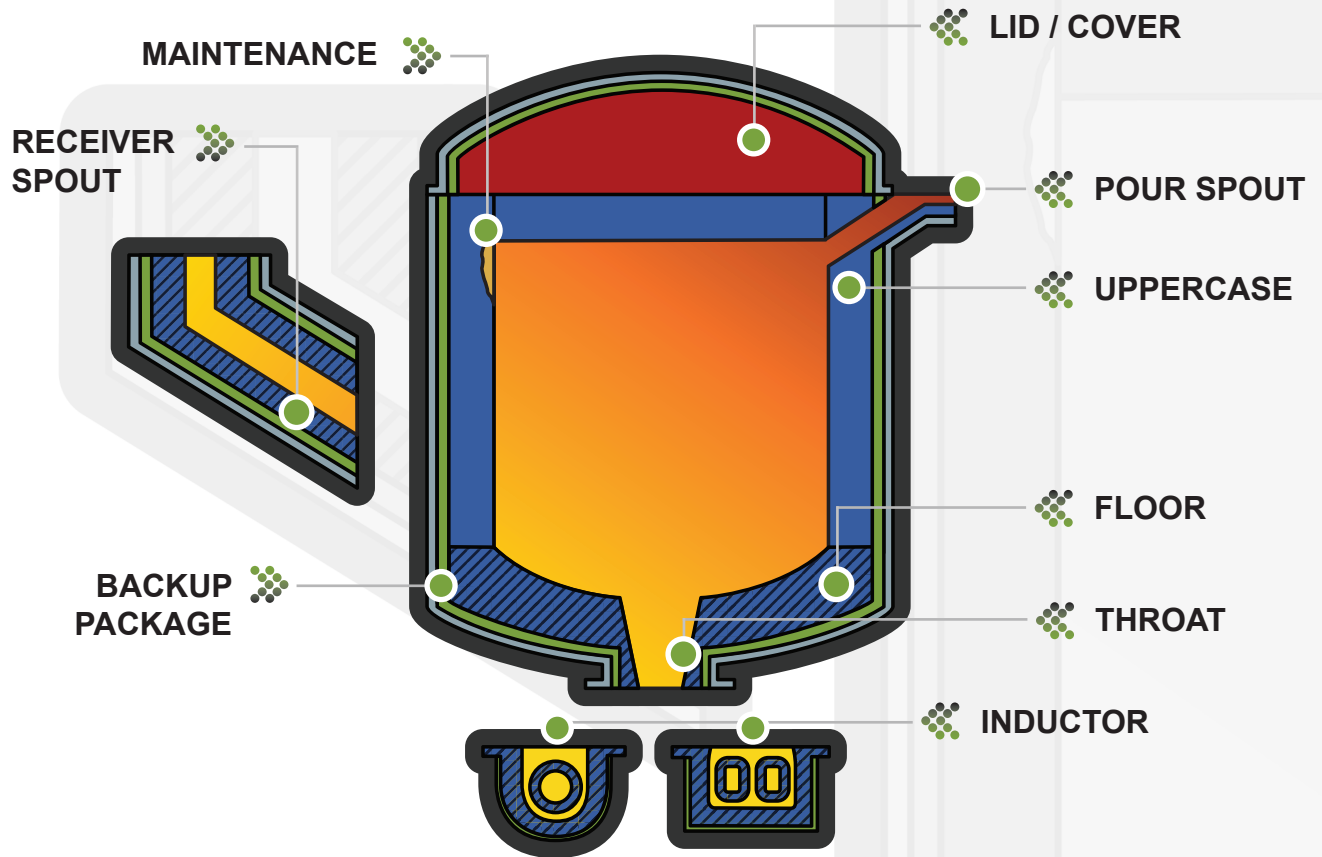


CHANNEL & PRESSURE POUR

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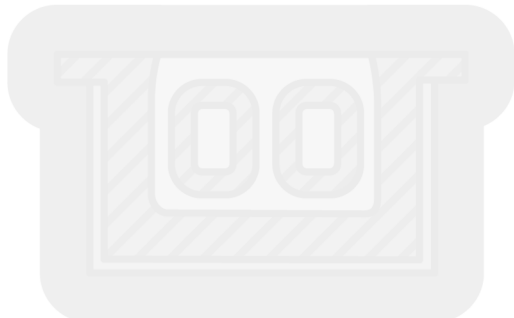
FOUNDRY REFRACTORIES

CHANNEL & PRESSURE POUR



CHANNEL & PRESSURE POUR - IRON

UPPERCASE, RECEIVER & POURING SPOUTS, FLOOR & THROAT	MAXIMUM TEMP.		MATERIAL REQ'D		CHEMICAL ANALYSIS %			
	°F	°C	Lbs/ft ³	Kg/m ³	Al ₂ O ₃	SiO ₂	CaO	Other
UNI-PUMP LC-99S	3400	1870	196	3140	92.9	0.1	1.6	5.2 MgO
UNI-PUMP LC-94	3100	1700	197	3160	92.6	5.6	1.5	0.3
UNI-CAST LC-85	3300	1820	178	2850	84.3	10.1	1.5	4.1
UNI-PUMP IC-8	3200	1760	173	2770	82.7	11.8	2.1	3.4
UNI-CAST 422	3100	1700	192	3080	81.4	4.7	0.4	12.8 SiC+C
UNI-PUMP 408	3146	1730	197	3160	87.7	5.1	0.7	4.1 SiC
UNI-PUMP 400	3100	1700	192	3080	73.3	5.3	0.7	18.0 SiC+C
UNI-SHOT 400	3100	1700	192	3080	72.7	5.0	0.4	19.0 SiC+C
UNI-PUMP 105	3100	1700	186	2980	86.8	4.7	0.7	5.8 SiC
UNI-RAM VR-556A	3100	1700	190	3040	86.8	4.3	0.1	4.5 SiC
UNI-RAM VR-900A**	3100	1700	190	3040	93.4	0.5	0.1	4.0 Cr ₂ O ₃
UNI-RAM VR-570A*	3100	1700	190	3040	94.1	3.7	-	2.2
UNI-RAM A-16*	3200	1760	195	3120	90.7	6.8	-	2.5
* Floor & Throat only								
** For Slag Line only								
INDUCTOR					Al ₂ O ₃	SiO ₂	MgO	Other
UNI-RAM VR-300A	3300	1820	190	3040	91.1	1.0	5.2	2.7
UNI-RAM VR-301A	3300	1820	190	3040	91.7	1.0	5.2	2.1
UNI-RAM VR-84M	3300	1820	175	2800	10.0	0.6	88.0	1.4
FURNACE COVER					Al ₂ O ₃	SiO ₂	CaO	Other
UNI-CAST 600	3000	1650	133	2130	51.1	41.2	4.9	2.8
PUMP-CAST 50C	2900	1590	143	2290	50.0	44.8	2.4	2.8
UNI-CAST 28 LW-HS	2800	1540	115	1840	46.2	46.4	4.5	2.9



CHANNEL & PRESSURE POUR - NON FERROUS

UPPERCASE, RECEIVER & POURING SPOUTS, FLOOR & THROAT*	MAXIMUM TEMP.		MATERIAL REQ'D		CHEMICAL ANALYSIS %			
	°F	°C	Lbs/ft ³	Kg/m ³	Al ₂ O ₃	SiO ₂	SiC	Other
UNI-PUMP 407	3097	1700	192	3080	85.5	4.8	6.3	3.4
UNI-PUMP 105	3100	1700	186	2980	86.8	4.7	5.8	2.7
UNI-PUMP 400	3100	1700	192	3080	73.3	5.3	18.0 _{SiC+C}	3.4
UNI-RAM VR-558A	3100	1700	190	3040	87.5	4.4	4.5	3.6
UNI-RAM VR-550A	3000	1650	190	3040	86.4	5.2	4.4	4.0
UNI-RAM A-14	3100	1700	190	3040	77.5	12.8	5.5	4.2
INDUCTOR					Al₂O₃	SiO₂	SiC	Other
UNI-PUMP 105	3100	1700	186	2980	86.8	4.7	5.8	2.7
UNI-RAM VR-558A	3100	1700	190	3040	87.5	4.4	4.5	3.6
UNI-RAM VR-550A	3000	1650	190	3040	86.4	5.2	4.4	4.0
UNI-RAM A-14	3100	1700	190	3040	77.5	12.8	5.5	4.2
FURNACE COVER					Al₂O₃	SiO₂	CaO	Other
UNI-CAST 600	3000	1650	133	2130	51.1	41.2	4.9	2.8
PUMP-CAST 50C	2900	1590	143	2290	50.0	44.8	2.4	2.8
UNI-CAST 28 LW-HS	2800	1540	115	1840	46.2	46.4	4.5	2.9

FOUNDRY REFRACTORIES
CUPOLA

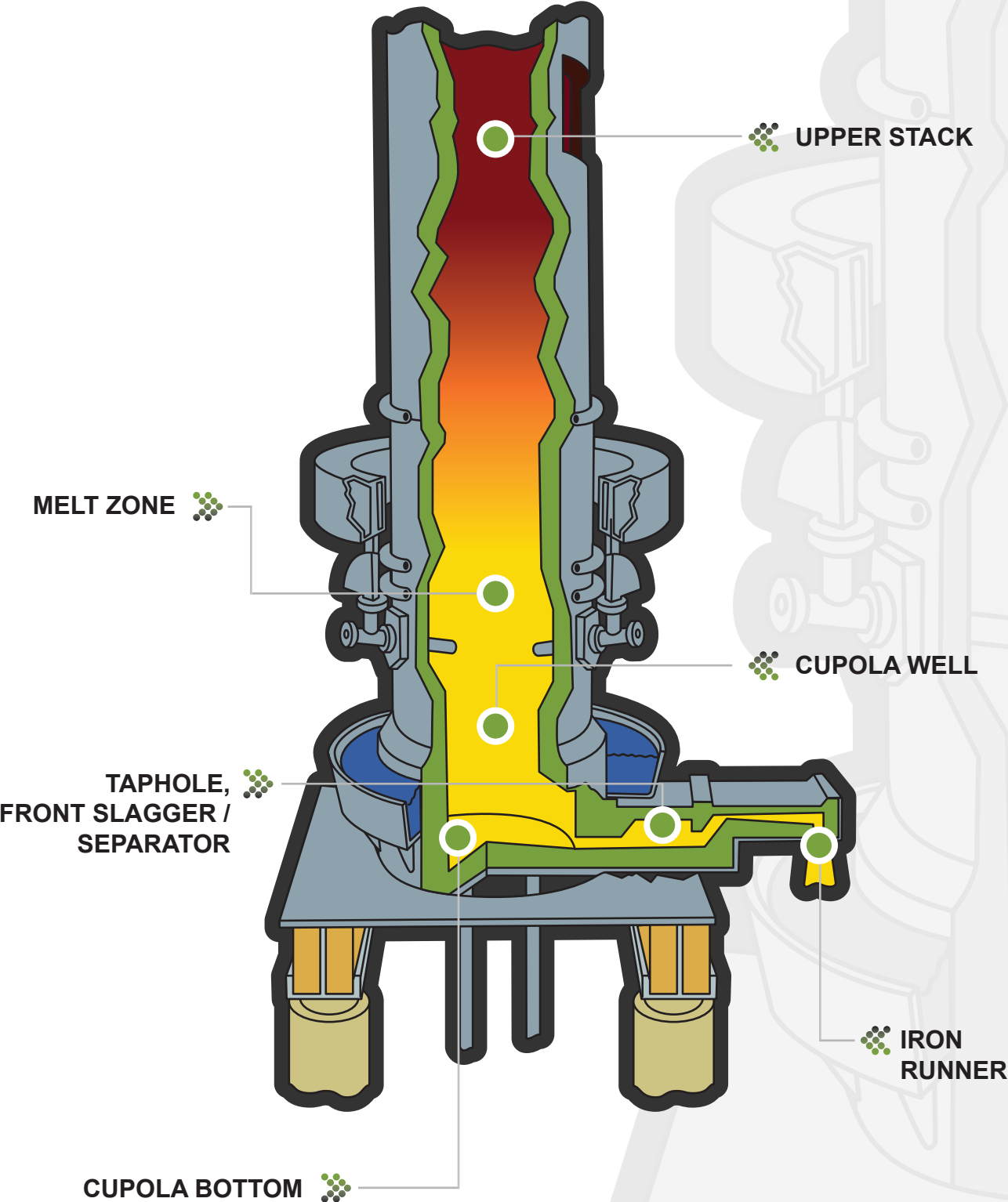


CUPOLA

DIE CUT

FOUNDRIY REFRACTORIES

CUPOLA



CUPOLA

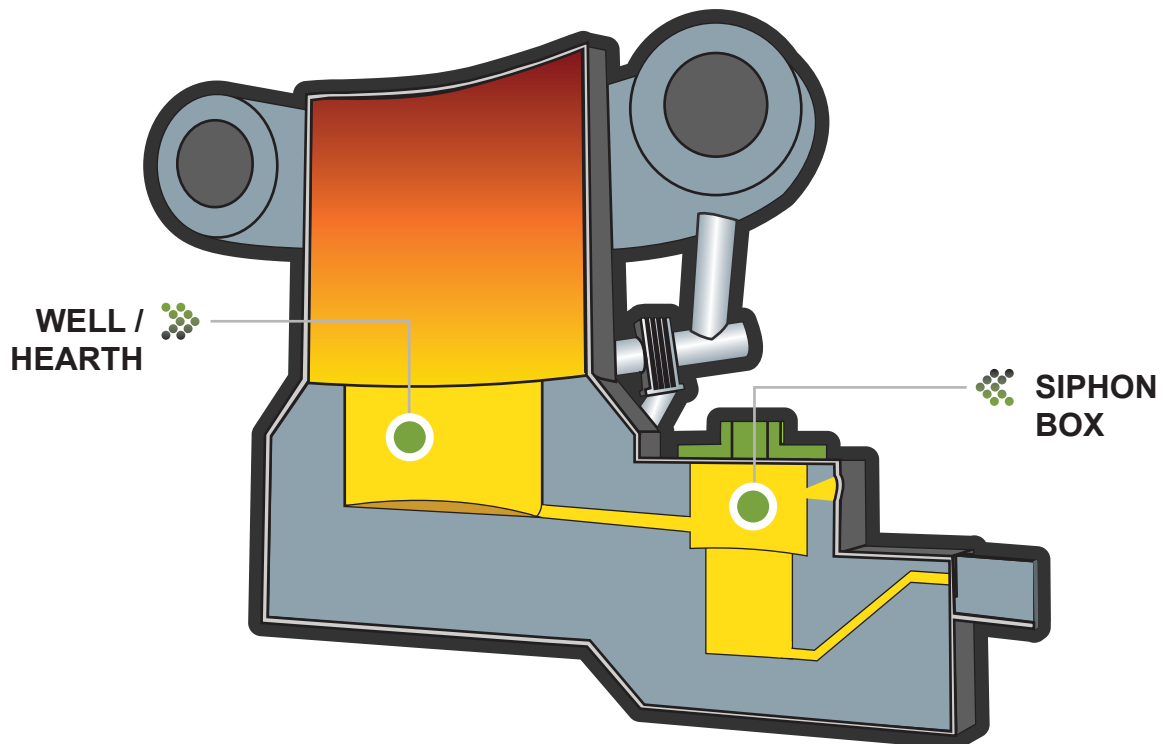
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CUPOLA - IRON

CHARGE ZONE / UPPER STACK	MAXIMUM TEMP.		MATERIAL REQ'D		CHEMICAL ANALYSIS %			
	°F	°C	Lbs/ft ³	Kg/m ³	Al ₂ O ₃	SiO ₂	CaO	Other
UNI-GUN RF-70RG	3200	1760	150	2400	69.7	24.1	2.9	3.3
UNI-GUN RF-60RG	3100	1700	137	2200	58.9	35.6	2.8	2.7
UNI-SHOT RF-60	3100	1700	153	2450	59.0	36.5	2.0	2.5
UNI-SHOT RF-60 CF	3100	1700	156	2500	59.7	37.5	-	1.3
UNI-SHOT RF-45	2950	1620	148	2370	50.4	44.3	3.0	2.3
MELT ZONE					Al ₂ O ₃	SiO ₂	SiC+C	CaO
UNI-SHOT 88SC	3100	1700	165	2640	8.7	5.5	84.9	0.3
UNI-SHOT 452	3100	1700	170	2720	47.2	5.5	45.9	0.4
UNI-GUN LC-452 SC	3100	1700	168	2690	41.8	5.5	48.3	1.5
UNI-GUN LC-453 SC	3100	1700	170	2720	42.8	5.6	48.8	0.8
WELL / PRESSURE SIPHON, HEARTH & SIPHON					Al ₂ O ₃	SiO ₂	SiC+C	CaO
UNI-SHOT 452	3100	1700	170	2720	47.2	5.5	45.9	0.4
UNI-PUMP 400	3100	1700	192	3080	73.3	5.3	18.0	0.7
UNI-SHOT 400	3100	1700	192	3080	72.7	5.0	19.0	0.4
UNI-PUMP 327	3100	1700	180	2880	71.9	5.0	20.8	0.4
UNI-SHOT 327	3100	1700	175	2800	71.0	5.2	21.0	0.4
UNI-RAM SC-929P	3100	1700	186	2980	69.2	4.2	21.9	4.7 Other
UNI-RAM SC-927P	3100	1700	187	3000	64.0	4.2	27.9	3.9 Other
UNI-GUN 471SC	3100	1700	161	2580	45.8	5.3	40.8	8.1 Other
BOTTOM					Al ₂ O ₃	SiO ₂	SiC+C	Other
UNI-RAM SC-966R	3200	1760	194	3110	71.4	3.8	22.1	2.7
UNI-RAM SC-955R	3100	1700	194	3110	70.2	4.2	21.8	3.8
UNI-RAM G-15A	3100	1700	175	2800	77.3	8.6	9.3 c	4.8
UNI-RAM G-2 DRY	3100	1700	175	2800	79.3	6.8	9.3 c	4.6

CUPOLA - IRON

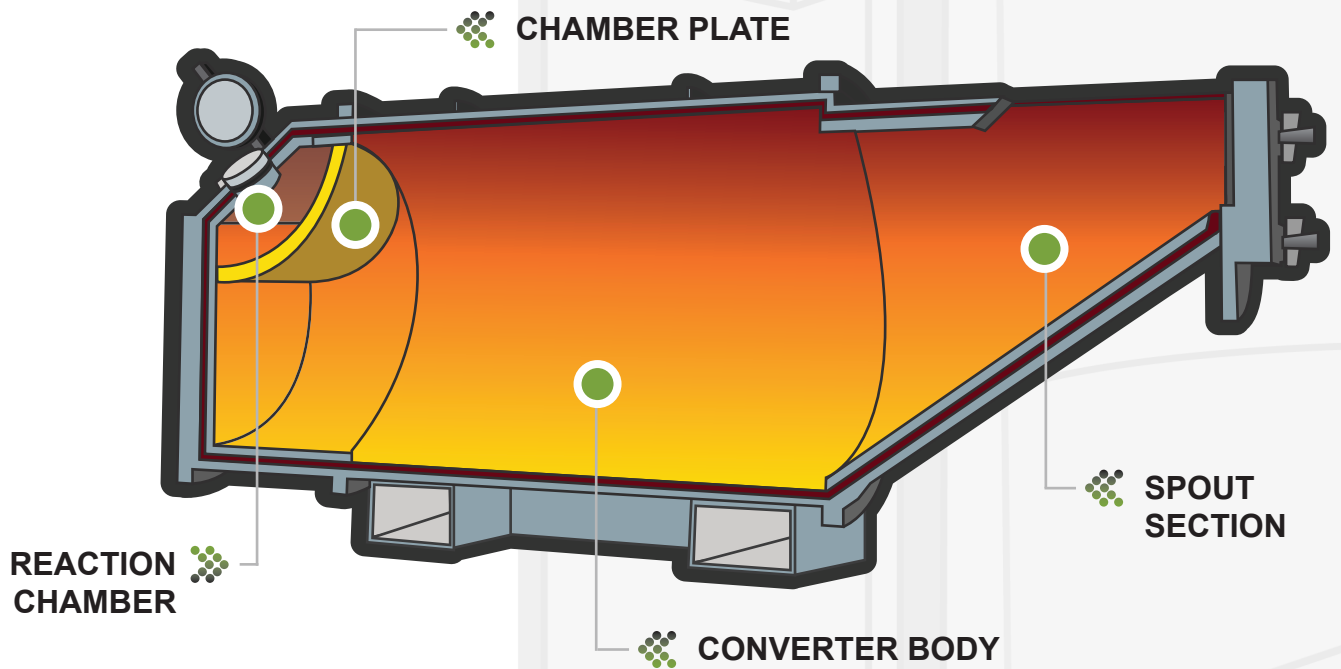
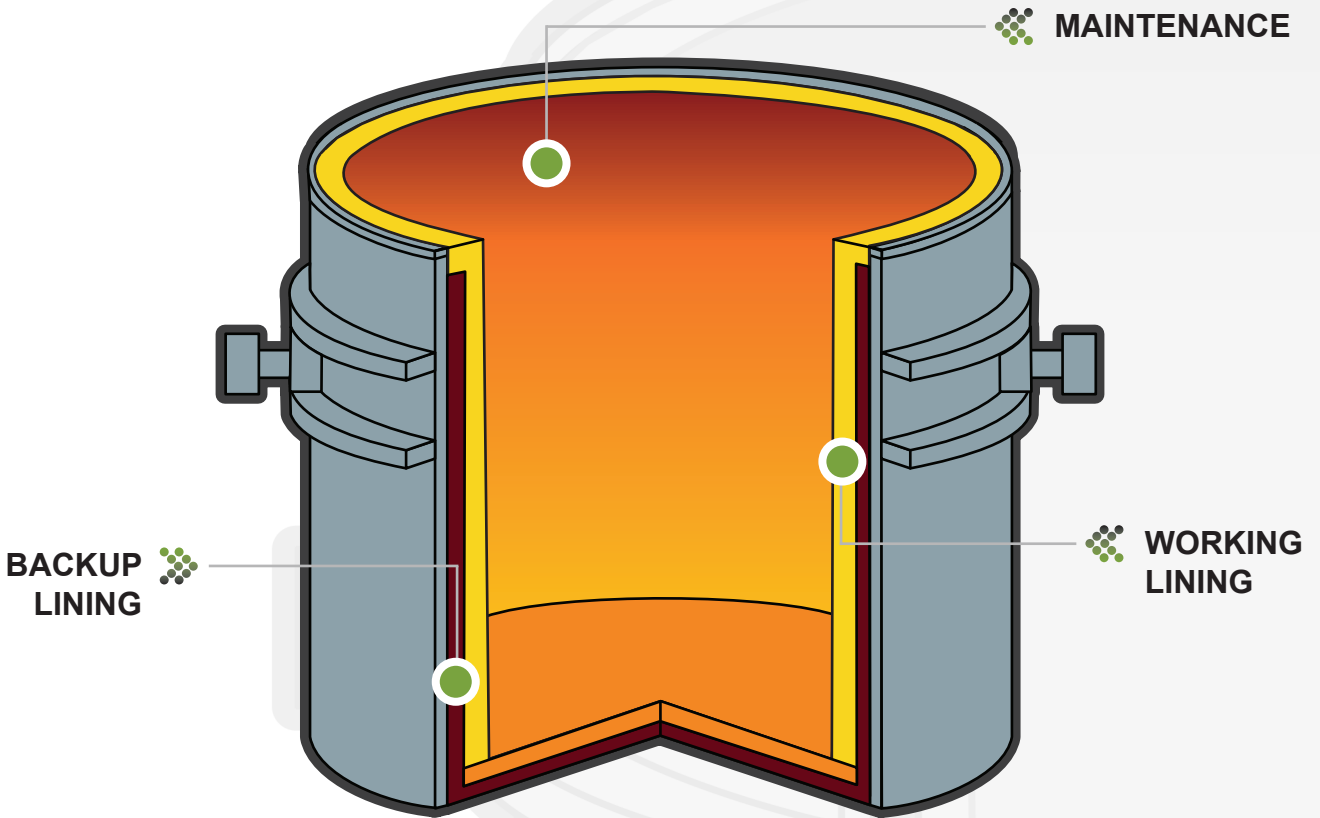
TAPHOLE, FRONT SLAGGER, SEPARATOR	MAXIMUM TEMP.		MATERIAL REQ'D		CHEMICAL ANALYSIS %			
	°F	°C	Lbs/ft ³	Kg/m ³	Al ₂ O ₃	SiO ₂	SiC+C	Other
UNI-PUMP 327	3100	1700	180	2880	71.9	5.0	20.8	0.4 CaO
UNI-PUMP 327 FS	3100	1700	180	2880	71.4	4.9	20.9	0.7 CaO
UNI-RAM SC-966R	3200	1760	194	3110	71.4	3.8	22.1	2.7
UNI-RAM SC-955R	3100	1700	194	3110	70.2	4.2	21.8	3.8
UNI-RAM SC-934P	3100	1700	186	2980	63.6	4.3	28.2	3.9
UNI-RAM SC-929P	3100	1700	186	2980	69.2	4.2	21.9	4.7
UNI-RAM SC-927P	3100	1700	187	3000	64.0	4.2	27.9	3.9
IRON RUNNER					Al₂O₃	SiO₂	SiC+C	CaO
UNI-PUMP 327	3100	1700	180	2880	71.9	5.0	20.8	0.4
UNI-PUMP 327 FS	3100	1700	180	2880	71.4	4.9	20.9	0.7
UNI-PUMP 400	3100	1700	192	3080	73.3	5.3	18.0	0.7
UNI-CAST 400	3150	1730	192	3080	72.7	5.0	19.1	0.7
UNI-CAST IC-5	2900	1590	152	2440	50.2	31.9	13.9	1.3
UNI-CAST MLX-70	3150	1730	163	2610	68.4	27.5	-	1.7
UNI-CAST ML-69C	3050	1680	158	2530	63.7	31.8	-	1.3



**FOUNDRY REFRACTORIES
TRANSFER & TREATMENT**



FOUNDRY REFRACTORIES TRANSFER, TREATMENT & MAINTENANCE



TRANSFER, TREATMENT & MAINTENANCE - IRON

CASTABLES / VIBRA-CASTING	MAXIMUM TEMP.		MATERIAL REQ'D		CHEMICAL ANALYSIS %			
	°F	°C	Lbs/ft ³	Kg/m ³	Al ₂ O ₃	SiO ₂	CaO	Other
UNI-CAST LC-60	3100	1700	160	2560	62.7	33.1	1.6	2.6
UNI-CAST ML-68C	3100	1700	157	2520	65.0	30.7	1.5	2.8
UNI-CAST ML-69C	3050	1680	158	2530	63.7	31.8	1.3	3.2
UNI-CAST MLX-70	3150	1730	163	2610	68.4	27.5	1.7	2.4
UNI-CAST ML-77C	3100	1700	160	2560	69.6	25.8	1.4	3.2
UNI-CAST LC-85	3300	1820	178	2850	84.3	10.1	1.5	4.1
UNI-CAST W5C	2900	1590	170	2720	64.2	18.2	1.3	13.9 _{SiC}
UNI-CAST IC-5	2900	1590	152	2440	50.2	31.9	1.3	13.9 _{SiC}
UNI-CAST 400	3150	1730	192	3080	72.7	5.0	0.7	19.1 _{SiC+C}
DELTA CAST	3300	1820	187	3000	86.4	8.9	0.7	4.0
PUMPABLES & SHOTCRETES					Al₂O₃	SiO₂	CaO	Other
UNI-PUMP 45	2950	1620	150	2400	50.4	44.3	3.0	2.3
UNI-SHOT 45	2950	1620	150	2400	50.4	44.3	3.0	2.3
UNI-PUMP 60	3100	1700	155	2480	59.0	36.5	2.0	2.5
UNI-SHOT 60	3100	1700	155	2480	59.0	36.5	2.0	2.5
UNI-PUMP 105	3100	1700	186	2980	86.8	4.7	0.7	5.8 _{SiC}
UNI-PUMP 327	3100	1700	180	2880	71.9	5.0	0.4	20.8 _{SiC+C}
UNI-SHOT 327	3100	1700	175	2800	71.0	5.2	0.4	21.0 _{SiC+C}
UNI-PUMP 400	3100	1700	192	3080	73.3	5.3	0.7	18.0 _{SiC+C}
UNI-SHOT 400	3100	1700	192	3080	72.7	5.0	0.4	19.0 _{SiC+C}
UNI-PUMP 407	3097	1700	192	3080	85.5	4.8	0.9	6.3 _{SiC+C}
UNI-PUMP 408	3146	1730	197	3160	87.7	5.1	0.7	4.1 _{SiC}
UNI-SHOT 408	3100	1700	197	3160	86.1	5	0.7	5.4 _{SiC}
UNI-PUMP ML-69C	3050	1680	160	2560	65.8	30.2	1.3	2.7
UNI-PUMP LC-99S	3400	1870	196	3140	92.9	0.1	1.6	5.2 _{MgO}
COATINGS					Al₂O₃	SiO₂	C	Other
UNI-COTE F	2900	1590	N/A	N/A	41.7	46.3	8.2	3.8
UNI-COTE GH	2900	1590	N/A	N/A	43.8	40.4	12.5	3.3
UNI-COTE G-60	2900	1590	N/A	N/A	-	91.0	5.0	4.0
UNI-COTE M-7	3100	1700	N/A	N/A	-	27.0	67.0 _{MgO}	6.0

TRANSFER, TREATMENT & MAINTENANCE - IRON

GUNNING MIXES	MAXIMUM TEMP.		MATERIAL REQ'D		CHEMICAL ANALYSIS %			
	°F	°C	Lbs/ft ³	Kg/m ³	Al ₂ O ₃	SiO ₂	CaO	Other
UNI-GUN 28AR	2800	1540	140	2240	49.2	41.3	6.8	2.7
UNI-GUN 70HG	3150	1730	145	2320	76.0	19.1	1.6	3.3
UNI-GUN 80HG	3200	1760	148	2370	80.2	14.9	1.6	3.3
UNI-GUN 90HG	3250	1790	158	2530	90.0	7.9	1.5	0.6
UNI-GUN IC-103	2950	1620	185	2960	78.7	16.7	0.1	1.8
UNI-GUN C	3000	1650	100	1600	16.4	27.3	52.2 c	4.1
UNI-GUN SC-20	3100	1700	130	2080	44.9	17.6	33.4 sic+c	4.1
UNI-GUN LC-452 SC	3100	1700	168	2690	41.8	5.5	48.3 sic+c	1.5
PLASTICS					Al ₂ O ₃	SiO ₂	P ₂ O ₅	Other
UNI-RAM 90HS	3200	1760	185	2960	90.8	3.1	4.8	1.3
UNI-RAM GREEN	3300	1820	185	2960	84.5	2.2	5.0	7.6 Cr ₂ O ₃
UNI-RAM GREEN 85	3300	1820	180	2880	76.8	12.9	3.8	3.5 Cr ₂ O ₃
UNI-RAM 85HS	3200	1760	185	2960	80.6	11.2	5.1	3.1
UNI-RAM 85ESS	3200	1760	180	2880	77.1	15.8	3.8	3.3
UNI-RAM BLU J	3100	1700	165	2640	67.5	25.8	4.1	2.6
UNI-RAM F	3000	1650	160	2560	51.1	42.9	3.4	2.6
SOFT PLASTICS					Al ₂ O ₃	SiO ₂	P ₂ O ₅	Other
UNI-PLAS 90HS	3200	1760	185	2960	90.8	3.1	4.8	1.3
UNI-PLAS 90FC	3200	1760	185	2960	84.1	8.9	4.7	2.3
UNI-PLAS GREEN	3300	1820	185	2960	84.5	2.2	5.0	7.6 Cr ₂ O ₃
UNI-PLAS GREEN 85	3300	1820	165	2640	76.0	13.0	4.4	3.5 Cr ₂ O ₃
UNI-PLAS 85HS	3200	1760	185	2960	80.6	11.2	5.1	3.1
UNI-PLAS 85ESS	3200	1760	178	2850	76.4	16.3	3.7	3.6
UNI-PLAS BLU J	3100	1700	165	2640	67.2	25.9	4.1	2.8
UNI-PLAS F	3100	1700	153	2450	51.2	42.8	3.4	2.6
PLASTERS					Al ₂ O ₃	SiO ₂	P ₂ O ₅	Other
UNI-RAM 90 PLASTER	3200	1760	175	2800	86.7	9.0	3.5	0.8
UNI-RAM GREEN PLASTER	3200	1760	175	2800	80.9	7.5	3.4	7.3 Cr ₂ O ₃
UNI-RAM 85C PLASTER	3200	1760	180	2880	73.9	19.2	3.7	3.2
UNI-RAM BLU FINE PLASTER	3100	1700	160	2560	61.5	32.5	3.6	2.4
UNI-RAM B-2 PLASTER	3000	1650	145	2320	43.6	50.2	3.4	2.8

QUALITY TECHNOLOGY SERVICE

PERFORMANCE DESIGNED SOLUTIONS...

Customers need refractory to perform effectively throughout their life cycle demands. We offer more than a product recommendation -- URC provides the total package combining excellent service with a specific solution designed to meet or exceed your expectations. Our refractory products and our people represent Performance Designed Solutions grounded in quality, anchored by technology and supported by customer service that is second to none.

QUALITY...

Consistently creating and providing high impact products that help customers meet and exceed their specific refractory requirements. We put a premium on product consistency, ease of installation and rapid turnaround time. Our products are all pre-tested and must meet our internal specifications (and any third party testing demands) before being released for shipment. We have maintained certification to a Quality Management System since 1999, and are currently certified to the ISO 9001:2008 standard.



Quality means more than our ISO9001:2008 certification - we go even further. It's not just our standard, quality is our commitment.

TECHNOLOGY...

Technology change drives refractory development at a fast pace in today's highly charged manufacturing environment. URC is constantly developing new and improved refractory products to provide cost effective solutions for demanding industrial processes. Focused on customer needs, we develop novel refractory solutions to satisfy customer requirements.

SERVICE...

Customer demands are unique. Our customer service philosophy is as equally unique - true collaboration that defines courses of action which are both practical and goal-focused. Our dedicated technical staff regularly meets with operators and engineers to better understand their applications and needs. Our people work like our refractories - to assure that customers get the performance they need when they need it.

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