MAMMUT-WETRO

Schmelztiegelwerk GmbH

since 1875

Qualität aus Erfahrung

quality by experience

"DÜNYADA TEK"

DOĞUŞ CRUCIBLES

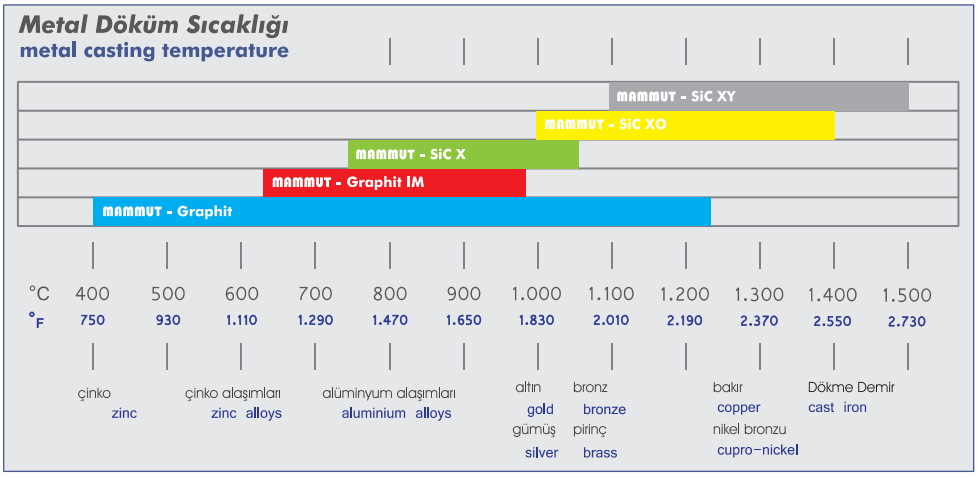
NATO kod-T74 53

MAMMUT-WETRO
Schmeltziegelwerk GmbH

DOĞUŞ
DÖKÜM MALZEMELERİ A.Ş.

MAMMUT POTALARIN ÖZELLİKLERİ VE UYGULAMALARI

PROPERTIES AND APPLICATIONS OF MAMMUT CRUCIBLES



Fırın atmosferi sıcaklığı metal sıcaklığının yaklaşık 100-150° üzerindedir.
Temperatures of furnace atmosphere are about 100 - 150 °C above metal temperature.

MAMMUT - Graphit

- çok iyi ısıl iletim
- flakslara karşı iyi kimyasal dayanım
- özellikle çinkonun ergitilmesi ve damıtılması için
- indüksiyon ocaklarında kullanmak için

MAMMUT - Graphit IM

- oksidasyona karşı çok iyi dayanım
- flakslara karşı iyi kimyasal dayanım
- iyi ısı iletim
- bütün alüminyum alaşımları için ergitme ve bekletme,özellikle en çok bekletme prosesleri için tavsiye edilir.

MAMMUT - SiC X

- çok yüksek ısıl şok dayanımı
- çok iyi ısıl iletkenlik
- oksidasyona karşı mükemmel dayanım
- flakslara karşı iyi kimyasal dayanım
- elektrikli ve fuel-oilli fırınlarda alüminyum alaşımlarının ergitilmesi ve bekletilmesi

MAMMUT - SiC XO

- çok iyi ısıl şok dayanımı
- çok iyi ısıl iletkenlik
- yüksek sıcak eğme mukavemeti
- flakslara karşı iyi kimyasal dayanım
- fuel oilli fırınlarda ağır metal alaşımlarının ergitilmesi
- alüminyum hurdası ergitmede kullanmak için

MAMMUT - SiC XY

- Yüksek sıcak eğme mukavemeti ile birlikte üstün ısıl şok dayanımı
- son derece iyi refrakterlik
- mükemmel ısı iletkenlik
- flakslara karşı iyi kimyasal dayanım
- yüksek ısıl gerilim altında değerli metallerin ve ağır metal alaşımlarının kullanımı için

MAMMUT - Graphite

- very good thermal conductivity
- very good chemical resistance against fluxes
- especially for melting of zinc and zinc distillation
- to use in induction furnaces

MAMMUT - Graphite IM

- very good resistance against oxidation
- good chemical resistance against fluxes
- good thermal conductivity
- melting and holding of all aluminium alloys, particularly recommended mainly for holding processes

MAMMUT - SiC X

- very high thermal shock resistance
- very good thermal conductivity
- excellent resistance against oxidation
- good chemical resistance against fluxes
- melting and holding of aluminium alloys in all electric heated and fuel fired furnaces

MAMMUT - SiC XO

- very good thermal shock resistance
- very good thermal conductivity
- high hot bending strength
- very good chemical resistance against fluxes
- melting of heavy metal alloys in fuel fired furnaces
- to use for melting of aluminium scrap

MAMMUT - SiC XY

- outstanding thermal shock resistance with highest hot bending strength
- extreme high refractoriness
- excellent thermal conductivity
- very good chemical resistance against fluxes
- to use for precious metals and heavy metal alloys while highest thermal stress

MADE IN GERMAN MADE IN

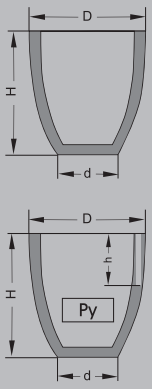
Schmelztiegel

CRUCIBLES

“Alçak Döküm Fırınları İçin Özel Tasarım”

Tiegelform BU / BM

crucible shape BU / BM



STOK KODU	NO	H mm	D mm	d mm	h mm	Al Kg	Cu Kg	Zn Kg
153 01 BU 020	BU 100	400	525	305	-	145	480	360
153 01 BU 021	BU 125	450	525	305	-	160	535	400
153 01 BU 003	BU 150	490	525	305	-	175	775	435
153 01 BU 022	BU 175	550	525	305	-	195	640	480
153 01 BU 005	BU 200	600	525	305	410	210	690	520
153 01 BU 023	BU 200 H/3	700	527	305	450	245	805	605
153 01 BU 024	BU 200 H/2	760	527	305	500	265	870	650
153 01 BU 025	BU 210	500	615	355	-	255	845	635
153 01 BU 007	BU 250	630	615	355	400	315	1040	785
153 01 BU 009	BU 300	700	615	355	450	350	1150	865
153 01 BU 011	BU 350	800	615	355	570	395	1300	980
153 01 BU 026	BU 350 H/3	850	615	355	-	415	1375	1035
153 01 BU 013	BU 350 H	900	615	355	-	440	1450	1090
153 01 BU 014	BU 500	750	775	435	450	600	1975	1490
153 01 BU 016	BU 600	900	780	435	550	720	2375	1785
153 01 BU 027	BU 700	1000	780	435	620	795	2620	1975
153 01 BU 028	BU 750	880	880	450	400	905	2985	2250
153 01 BU 029	BM 800 H/1	1000	880	350	570	970	3200	2400
153 01 BU 030	BM 800 H/4	1100	880	350	620	1060	3490	2625
153 01 BU 031	BM 800 H/2	1170	880	350	700	1120	3690	2780
153 01 BU 032	BU 900	1000	950	440	570	1185	3905	2940
153 01 BU 033	BM 800 H	1250	880	350	750	1190	3920	2950
153 01 BU 034	BU 900 H/4	1100	950	440	620	1290	4260	3210
153 01 BU 035	BM 800 H/14	1400	880	350	900	1320	4355	3280
153 01 BU 036	BU 900 H	1250	950	440	700	1455	4800	3610

Qualitäten qualities: BU, BUX, BUXO, BUXY

Lieferbar auch als BUK mit Bodenaussparung und Ausgusseinschnitt.

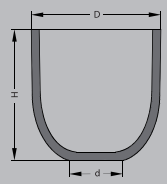
Available as BUK with bottom recess and notch for spout.

Tiegelform BMX / BUX / BX

crucible shape BMX / BUX / BX

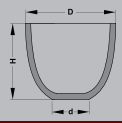
CRUCIBLES

STOK KODU	NO	H mm	D mm	d mm	Al Kg	Cu Kg	Zn Kg
153 01 BX 001	BMX 550	750	780	435	665	2195	1650
153 01 BX 002	BX 900	800	720	360	580	1910	1475
153 01 BX 003	BX 901	900	720	360	640	2105	1585
153 01 BMX 001	BX 902	940	720	360	665	2185	1645
153 01 BX 004	BX 903	1050	720	360	730	2400	1810
153 01 BX 005	BX 1100	750	840	350	770	2540	1910
153 01 BX 006	BX 1500	850	840	350	850	2800	2110
153 01 BX 007	BX 1800	980	840	350	950	3140	2360
153 01 BMX 004	BMX 750	880	880	350	965	3185	2395
153 01 BX 008	BMX 880	880	950	440	1160	3825	2880
153 01 BMX 005	BX 2100	1130	840	350	1070	3530	2660
153 01 BUX 018	BUX 970	880	970	735	1310	4310	2345



Qualitäten qualities BMX / BUX / BX

STOK KODU	NO	H mm	D mm	d mm	Al Kg	Cu Kg	Zn Kg
153 01 B 002	B 400	450	700	305	265	875	660
153 01 B 003	B 500	525	715	305	320	1055	795
153 01 B 004	B 600	585	720	305	360	1180	890
153 01 B 005	B 700	630	730	305	395	1300	980
153 01 B 006	B700/1	700	730	305	435	1435	1080



Qualitäten qualities BX / B

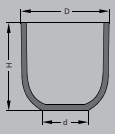
STOK KODU	NO	H mm	D mm	d mm	Al Kg	Cu Kg	Zn Kg
153 01 BX 009	BX 700LB	560	865	380	530	1740	1310
153 01 BX 010	BX 800LB	605	870	380	570	1890	1420
153 01 BX 011	BX 900LB	650	875	380	620	2040	1540
153 01 BX 012	BX 990LB	710	880	380	680	2240	1685

Qualitäten qualities BX

Tiegelform B / MD

crucible shape B / MD

STOK KODU	NO	aquivalent equal	H mm	D mm	d mm	Al Kg	Cu Kg	Zn Kg
153 01 B 007	B 35	MD 2	345	395	200	60	200	150
153 01 B 008	B 50	MD 3	395	395	200	70	225	170
153 01 B 009	B 60	MD 4	430	395	200	70	245	185
153 01 B 010	B 75	MD 5	375	465	235	95	320	240
153 01 B 011	B 106	MD 6	400	525	255	135	450	340
153 01 B 012	B 125	MD 7	450	525	255	150	500	375
153 01 B 013	B 150	MD 9	490	525	255	165	535	405
153 01 B 014	B 175	MD 10	550	525	255	180	600	450
153 01 B 015	B 200	MD 11	600	525	255	195	645	485
153 01 B 016	B 225	MD 15	630	600	250	270	900	675
153 01 B 017	B 300	MD 14	500	625	480	275	910	685
		-	700	650	250	355	1170	880
		MD 13	700	730	380	485	1610	1210



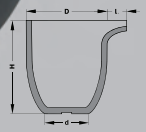
Qualitäten qualities B/MD BX/MDX

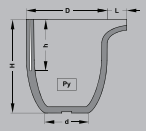
Subject to technical modification. All dimensions are subject to tolerances.

Schmelztiegel

CRUCIBLES

Tiegelform TP mit Ausguss
crucible shape TP with spout



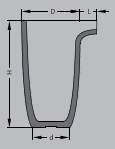


“İç ve Dıştan Çift Sırlı Ana Ergitme Pota Çeşitlerimiz”

STOK KODU	No	H mm	D mm	d mm	L mm	h mm	Al Kg	Cu Kg	Zn Kg
153 01 TP 001	TP 287	600	525	305	130	-	200	655	495
153 01 TP 002	TP 387	630	615	355	160	400	300	995	750
153 01 TP 008	TP 412	800	615	355	160	570	375	1245	935
153 01 TP 005	TP 412 H/3	850	615	355	160	-	400	1315	990
153 01 TP 006	TP 412 H	900	615	355	160	620	420	1390	1045
153 01 TP 009	TP 487	800	720	360	200	-	525	1730	1300
153 01 TP 011	TP 488	900	720	360	200	-	585	1930	1450
153 01 TP 013	TP 489	940	720	360	200	-	610	2007	1510
153 01 TP 017	TP 490	1050	720	360	200	-	675	2225	1675
153 01 TP 010	TP 587	900	780	435	200	550	720	2375	1785
153 01 TP 016	TP 1500	850	840	350	200	-	760	2515	1890
153 01 TP 018	TP 587 H	1000	780	435	200	620	795	2620	1970
153 01 TP 019	TP 1800	980	840	350	200	-	865	2855	2150
153 01 TP 020	TP 750	880	880	350	200	-	865	2860	2150
153 01 TP 021	TP 800	1000	880	350	200	570	970	3200	2410
153 01 TP 012	TP 2100	1130	840	350	200	-	985	3250	2445
153 01 TP 022	TP 800 H/4	1100	880	350	200	620	1060	3490	2625
153 01 TP 014	TP 800 H/2	1170	880	350	200	700	1120	3690	2780
153 01 TP 023	TP 900	1000	950	440	200	570	1185	3905	2940
153 01 TP 024	TP 800 H	1250	880	350	200	750	1190	3920	2950
153 01 TP 025	TP 900 H/4	1100	950	440	200	620	1290	4260	3210
153 01 TP 026	TP 800 H/14	1400	880	350	200	900	1320	4355	3275
153 01 TP 027	TP 900 H	1250	950	440	200	700	1455	4800	3610

Qualitäten TP TPX
qualities TPXO TPXY

STOK KODU	No	H mm	D mm	d mm	L mm	Al Kg	Cu Kg	Zn Kg
153 01 TP 028	TP 173 G	490	325	240	95	52	170	130
153 01 TP 007	TP 400 G	615	360	260	130	85	275	210
153 01 TP 029	TP 400	665	360	260	130	90	300	225
153 01 TP 031	TP 843	675	420	255	155	130	430	320
153 01 TP 033	TP 982	800	435	295	135	170	565	425
153 01 TP 004	TP 12	940	440	295	150	205	675	510
153 01 TP 003	TP 89	740	545	325	135	265	875	660
153 01 TP 032	TP 16	970	540	360	160	350	1145	865



Qualitäten TP TPX
qualities TPXO TPXY

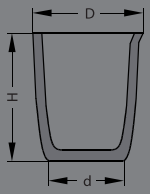
Technische Änderungen vorbehalten. Alle angegebenen Abmessungen unterliegen fertigungsbedingten Toleranzen.

Schmelztiegel

CRUCIBLES

Tiegelform A
crucible shape A

STOK KODU	No	H mm	D mm	d mm	Al Kg	Cu Kg	Zn Kg
153 01 A 001	A 0*	70	60	41	150 gr	450 gr	300 gr
153 01 A 008	A 1*	90	90	55	510 gr	2	1
153 01 A 013	A 5*	150	125	85	2	7	5
153 01 A 17	A 10	200	160	115	6	20	15
153 01 A 18	A 15	230	180	120	8	27	20
153 01 A 19	A 20	255	200	140	12	40	30
153 01 A 20	A 25	260	220	150	15	50	35
153 01 A 22	A 30	290	230	160	18	60	45
153 01 A 24	A 50	330	270	195	20	75	55
153 01 A 25	A 60	345	285	200	25	85	65
153 01 A 23	A 40	310	260	190	27	90	70
153 01 A 26	A 70	360	295	205	30	95	75
153 01 A 27	A 80	375	302	215	35	110	85
153 01 A 28	A 90	380	315	225	40	125	95
153 01 A 29	A 100	400	325	230	45	140	105
153 01 A 30	A 120	410	345	245	45	150	115
153 01 A 31	A 150	450	370	260	60	200	150
153 01 A 32	A 200	500	400	285	80	270	205
153 01 A 33	A 250	515	420	300	95	315	235
153 01 A 34	A 300	540	440	315	110	370	280
153 01 A 35	A 350	590	475	330	145	475	355
153 01 A 36	A 400	600	500	340	150	495	370
153 01 A 37	A 500	650	510	350	185	610	460
153 01 A 38	A 600	680	530	380	220	725	545
153 01 A 39	A 800	800	560	380	255	835	630
153 01 A 41	A 1000	890	635	420	345	1135	855
153 01 A 42	A 1100	890	635	420	375	1235	930

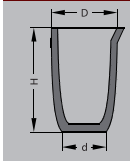


Qualitäten qualities: A, AX, AXO, AXY

*ohne Glasur – ab A 400 ohne Ausgusslippe
*unglazed – from A 400 without lip

Tiegelform C
crucible shape C

STOK KODU	NO	H mm	D mm	d mm	Al Kg	Cu Kg	Zn Kg
153 01 C 008	C 50	370	250	180	20	60	45
153 01 C 004	C 60	400	255	190	20	70	55
153 01 C 009	C 80	440	275	205	30	95	70
153 01 C 010	C 100	480	295	210	35	120	90
153 01 C 011	C 120	520	310	230	45	155	115
153 01 C 012	C 150	550	330	240	60	190	140
153 01 C 007	C 200	600	350	250	70	235	180



Qualitäten qualities: C

Subject to technical modification. All dimensions are subject to tolerances.

Qualität aus Erfahrung
quality by experience

since 1875

Schmelztiegel

CRUCIBLES

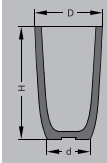
Tiegelform TP
crucible shape TP

STOK KODU	NO	H mm	D mm	d mm	Al Kg	Cu Kg	Zn Kg
153 01 TP 030	TP 904	915	345	240	70	235	175
153 01 TP 034	TP 6	675	420	285	90	295	220
153 01 TP 035	TP 8	800	440	295	120	395	295
153 01 TP 036	TP 14	1015	420	255	125	405	305
153 01 TP 037	TP 10	940	440	295	140	465	350
153 01 TP 038	TP 10 H	1015	440	295	155	505	380
153 01 TP 039	TP 15	940	540	360	250	820	620
153 01 TP 040	TP 15 H	1080	540	360	280	920	690
153 01 TP 041	TP 830	1190	540	360	310	1015	765
153 01 TP 042	TP 980	1230	680	395	505	1665	1255

Qualitäten TP TPX
qualities TPXO TPXY

Tiegelform K / crucible shape K

STOK KODU	NO	H mm	D mm	d mm	Al Kg	Cu Kg	Zn Kg
153 01 K 001	K 100	520	290	200	30	95	70
153 01 K 002	K 150	600	320	240	50	160	120
153 01 K 003	K 200	620	350	250	60	205	155
153 01 K 004	K 250	650	370	260	75	245	185
153 01 K 005	K 300	720	445	280	120	400	300
153 01 K 006	K 350	750	450	290	130	435	330
153 01 K 007	K 400	800	460	320	160	530	395
153 01 K 008	K 500	840	465	320	170	565	425
153 01 K 009	K 600	940	465	320	190	635	480



Qualitäten K KX
qualities KXO KXY

Tiegelform KF / crucible shape KF

STOK KODU	No	H mm	D mm	d mm	Al Kg	Cu Kg	Zn Kg
153 01 KF 001	KF 200	770	350	260	80	265	200
153 01 KF 002	KF 300	870	440	295	90	305	225
153 01 KF 003	KF 500	990	485	320	215	715	540
153 01 KF 004	KF 600	1090	485	320	240	790	595
153 01 KF 005	KF 1000 H	950	590	370	320	1060	800
153 01 KF 006	KF 750	1130	540	330	360	1005	755
153 01 KF 007	KF 1000	1130	590	370	385	1270	955
153 01 KF 008	KF 1500	1130	680	395	505	1675	1260
153 01 KF 009	KF 1500 H/14	1345	680	395	605	2000	1505
153 01 KF 010	KF 2000	1130	785	435	685	2255	1695
153 01 KF 011	KF 2500	1250	800	435	780	2570	1940

Qualitäten KF KFX
qualities KFXO KFXY

Technische Änderungen vorbehalten. Alle angegebenen Abmessungen unterliegen fertigungsbedingten Toleranzen.

“İndiksiyon Fırınları İçin Özel Tasarım Performans”

CRUCIBLES

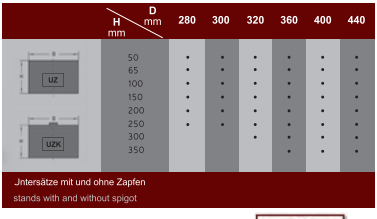
Tiegelform Z
crucible shape Z

STOK KODU	No	H max. mm	D mm	d mm	Al Kg	Cu Kg	Zn Kg
153 01 ZMX 014	ZMX 15/1	160	85	65	600 gr	2	2
153 01 ZMX 019	ZMX 5/1	160	85	82	1	3	2
153 01 ZMX 022	ZMX 10/180	180	100	80	1	4	3
153 01 ZMX 023	ZMX 10	200	110	90	2	6	5
153 01 ZMX 024	ZMX 6	250	130	100	5	15	15
153 01 ZMX 021	ZMX 11/3	310	170	167	11	35	30
153 01 ZMX 020	ZMX 12	355	215	170	20	70	55
153 01 ZMX 017	ZMX 15/5	330	235	190	25	85	65
153 01 ZMX 025	ZMX 12 H	470	215	170	30	100	75
153 01 ZMX 026	ZMX 16/1	400	250	190	35	120	95
153 01 ZMX 015	ZMX 15/3	470	245	242	41	135	105
153 01 Z 001	Z 78/1	470	260	257	50	155	125
153 01 ZMX 027	ZMX 16	590	250	190	55	175	140
153 01 Z 010	Z 111	530	390	385	135	440	350
153 01 Z 005	Z 96	560	405	400	160	525	420
153 01 Z 008	Z 100/28	725	420	415	190	635	505
153 01 Z 024	Z 100/25	750	420	415	200	660	525
153 01 Z 002	Z 86/6	700	480	475	225	745	595
153 01 Z 025	Z 86/24	730	480	400	235	775	620
153 01 Z 003	Z 86/17	800	480	475	260	855	680
153 01 ZMX 028	ZMX 101/9	650	530	525	260	870	690
153 01 Z 026	Z 100	880	420	415	275	920	725
153 01 Z 027	Z 79/3	710	525	520	285	935	745
153 01 Z 004	Z 79/7	780	525	520	310	1030	820
153 01 Z 028	Z 86/3	960	480	475	315	1035	825
153 01 Z 029	Z 86	960	485	480	320	1060	845
153 01 Z 030	Z 182/17	900	620	615	330	1765	1405
153 01 Z 031	Z 79	980	525	500	395	1310	1040
153 01 Z 032	Z 101/6	900	533	526	395	1305	1040
153 01 Z 033	Z 182/3	825	620	615	490	1610	1280
153 01 Z 009	Z 101	1150	530	525	500	1660	1320
153 01 Z 034	Z 182/2	1040	620	615	620	2050	1635
153 01 Z 035	Z 182/6	1550	620	615	935	4000	2465
153 01 Z 036	Z 230/1	1280	680	675	950	3140	2500
153 01 Z 037	Z 230	1500	680	675	1115	370	2940

Qualitaten
qualities
Z
ZX

SiC-Untersätze UZ / UZK

SiC-stands UZ / UZK



Untersätze mit und ohne Zapfen
stands with and without spigot

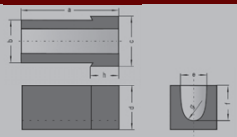
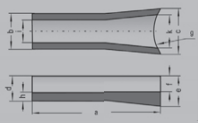
Subject to technical modification. All dimensions are subject to tolerances.

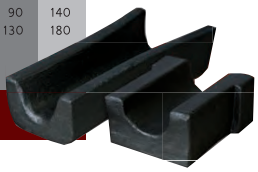
Qualität aus Erfahrung
quality by experience

since 1875

accessories

Gießrinnen GR
launders GR

	No.	Tiegel	a	b	c	d	e	f	g	h	i	k
	GR 18	TP 287	215	150	170	85	90	50	40	60	–	–
	GR 19	TP 387	275	150	170	85	90	50	40	60	–	–
		TP 412	275	150	170	85	90	50	40	60	–	–
	GR 20	TP 587	275	200	220	120	130	70	55	60	–	–
	GR 21	BU 200	400	140	190	85	130	60	260	50	90	140
	GR 22	BU 350	460	140	190	85	130	60	310	50	90	140
	GR 23	BU 600	460	180	230	120	150	80	400	70	130	180



Pyrometerschutzrohre RY
pyrometer tubes RY

L mm	D mm	d mm
300	40	20
460	50	25
500	60	30
600		
750		
1000		

RYE mit Stahlrohr & Gewinde / RYE with steel tube and thread
RYE = 1/2" ; RYE1 = 3/4" ; RYE2 = 3/8"

RYE Sic Thermocupl
Koruyucu Kılıflar

NO	L mm	D mm
RY 35 E	500 1/2	50
RY 85 E		60
RY 116 E	900 1/2	50
RY 120 E	1000 1/2	50
RY 68 E	1200 1/2	50
RY 35 E	500 1/2	50
RY 78 E	600 1/2	50
RY 24 E	700 1/2	50
RY 75 E	750 1/2	50
RY 83 E	800 1/2	50
RY 256 E	1300 1/2	50
RY 75 E1	750 3/4	50

RY Sic Thermocupl
Koruyucu Kılıflar

NO	L mm	D mm
RY 35	500 1/2	50
RY 49	500 1/2	60
RY 78	600 1/2	50
RY 24	700 1/2	50
RY 75	750 1/2	50
RY 116	900 1/2	50
RY 120	1000 1/2	50
RY 102/27	1200 1/2	50
RY 85		
RY 280		

RY Sic Thermocupl
Koruyucu Kılıflar

NO	L mm	D mm
RYX 266 E	560 3/4	55
RYN 560 E	560 3/4	60
RYN 610 E	610 3/4	50
RYN 710 E	710 2/2	50

Subject to technical modification. All dimensions are subject to tolerances.

accessories

Begasungslanzen LA

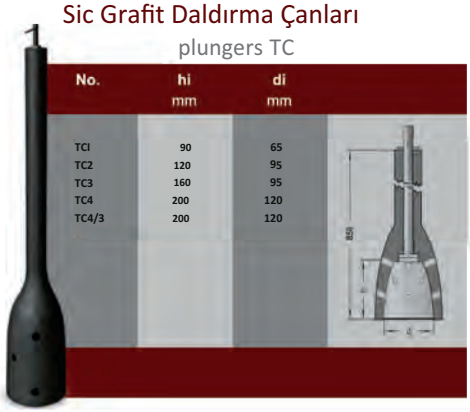
degassing tubes LA

No.	L mm	D mm	Gewinde thread
4	750	60	1/2"
6	1000	60	1/2"
5	1300	60	1/2"
8	1500	60	1/2"

Sic Grafit Daldırma Çanları

plungers TC

No.	hi mm	di mm
TCl	90	65
TC2	120	95
TC3	160	95
TC4	200	120
TC4/3	200	120



Schöpfkellen SK

ladle bowls SK

No.	Vol. Liter	Gewinde thread
SKi	0,1 3	MI0
SK2	0,3 3	M16
SK3	0,50	M16
SK4	0,60	M16
SK5	0,75	M16
SK6	1,50	M16
SK7	1,20	M16
SKB	2, 20	M16
SK9	3,20	M16

Sic Grafit Karıştırma Çubuğu

NO	L mm	D mm
RU 14	500	50
RU 40/1	600	50
RU 134	600	50
RU 136	800	50
RU 26	1000	50
RU 142	1100	50
RU 142	400	70

Technische Änderungen vorbehalten. Alle angegebenen Abmessungen unterliegen fertigungsbedingten Toleranzen.