

DESCRIPTION

STARRBIDE is a high quality tar-bonded silicon carbide crucible. STARRBIDE is an established product with a proven track-record through extensive worldwide sales. It is designed to provide reliable performance across the full range of non ferrous melting and holding applications.

APPLICATIONS

Consistent performance for aluminum as well as for higher temperature alloys such as brass and bronzes. Other variants are available for specific applications.

TYPICAL METAL CASTING TEMPERATURE

1300°F—2200°F • 700°C—1200°C

PERFORMANCE CHARACTERISTICS

- Good thermal shock resistance
- Good resistance to attack by chemical treatment agents
- High mechanical strength

IDENTIFICATION

STARRBIDE crucibles are colored black.

PATTERN RANGE

STARRBIDE crucibles are available in a comprehensive range of shapes and sizes to suit most end-user requirements. Custom sizes available by special request.

Heavy wall (HW) can be supplied. A wide range of pouring lips are available.

QUALITY

STARRBIDE is manufactured to ISO9001:2000 quality standards.



PREHEATING / FIRST USE

Crucibles should be preheated empty until they reach a bright-red color 1472°F (800°C). This procedure drives off any moisture absorbed in shipping and sets the glaze to achieve maximum oxidation resistance. The time needed to preheat depends on the size of the crucible. Typical times from cold to red heat are 30 minutes for crucibles with 700 lbs aluminum capacity, up to 70 minutes for crucibles with between 700–2000 lbs aluminum capacity.

CHARGING

As soon as the crucible becomes hot all over, charge and melt immediately. Charge light returns first to form a cushion for heavier metal to follow. Use tongs to charge ingots.

Place large pieces and ingots vertically.

FULL LINE OF CRUCIBLES TO MEET EVERY APPLICATION



EXCEL HIMELT
Roller-Formed SIC



EXCEL E
Roller-Formed SIC



INDUX
Clay Graphite



SALAMANDER SUPER
Clay Graphite



SYNCARB
ISO-Pressed Clay Graphite

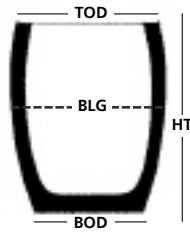


ULTRAMELT
ISO-Pressed SIC

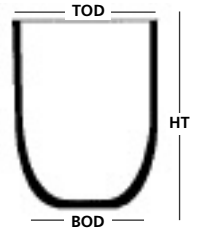


| Desc. | TOD | HT | BOD | BLG | Wall | Al | Brass | TOD | HT | BOD | BLG | Wall | Al | Brass |
|-------|--------|--------|--------|--------|-------|-----|-------|-----|-----|-----|-----|------|-------|-------|
| 1 | 3 1/2 | 3 3/4 | 2 3/8 | 3 3/8 | 3/8 | 1.0 | 3 | 89 | 95 | 60 | 86 | 9 | 0.4 | 1.4 |
| 2 | 4 | 4 5/8 | 2 5/8 | 4 | 3/8 | 1.5 | 4.5 | 103 | 116 | 68 | 103 | 10 | 0.7 | 2.0 |
| 4 | 4 3/4 | 5 3/4 | 3 1/8 | 4 3/4 | 1/2 | 3.3 | 10 | 121 | 146 | 79 | 121 | 12 | 1.5 | 4.5 |
| 6 | 5 1/4 | 6 1/2 | 3 7/8 | 5 3/8 | 1/2 | 6.2 | 19 | 133 | 165 | 98 | 137 | 14 | 2.8 | 8.6 |
| 8 | 5 7/8 | 7 1/8 | 4 1/4 | 5 7/8 | 1/2 | 8.5 | 26 | 149 | 181 | 108 | 149 | 14 | 3.8 | 11.8 |
| 10 | 6 3/4 | 8 3/4 | 5 | 6 3/4 | 5/8 | 12 | 36 | 171 | 222 | 127 | 171 | 15 | 5.3 | 16.3 |
| 12 | 6 5/8 | 8 1/2 | 4 1/2 | 6 7/8 | 5/8 | 16 | 48 | 167 | 217 | 115 | 176 | 15 | 7.1 | 21.8 |
| 14 | 6 3/4 | 9 | 5 1/4 | 7 1/4 | 5/8 | 18 | 56 | 171 | 229 | 132 | 184 | 16 | 8.3 | 25.4 |
| 16 | 7 1/2 | 9 1/2 | 5 1/2 | 7 1/2 | 3/4 | 22 | 68 | 190 | 242 | 140 | 190 | 18 | 10.0 | 30.8 |
| 18 | 7 3/8 | 9 7/8 | 5 5/8 | 8 | 3/4 | 24 | 75 | 187 | 251 | 143 | 202 | 18 | 11.1 | 34.0 |
| 20 | 7 5/8 | 10 1/2 | 6 1/8 | 8 3/8 | 3/4 | 27 | 82 | 193 | 267 | 156 | 212 | 19 | 12.1 | 37.2 |
| 30 | 8 1/2 | 11 5/8 | 6 7/8 | 9 5/8 | 7/8 | 41 | 125 | 217 | 295 | 174 | 244 | 21 | 18.4 | 56.7 |
| 50 | 10 1/4 | 13 7/8 | 8 1/8 | 11 1/4 | 7/8 | 62 | 190 | 260 | 351 | 205 | 285 | 23 | 28.0 | 86.2 |
| 60 | 10 7/8 | 14 5/8 | 8 7/8 | 12 1/4 | 1 | 72 | 221 | 276 | 370 | 226 | 311 | 26 | 32.6 | 100.2 |
| 70 | 11 3/8 | 15 1/4 | 9 1/4 | 12 3/4 | 7/8 | 80 | 245 | 289 | 388 | 235 | 323 | 23 | 36.1 | 111.1 |
| 80 | 11 5/8 | 15 7/8 | 9 1/2 | 12 7/8 | 1 | 93 | 285 | 294 | 402 | 240 | 327 | 25 | 42.0 | 129.3 |
| 90 | 12 1/8 | 16 3/8 | 9 3/4 | 13 3/8 | 1 | 98 | 301 | 308 | 416 | 248 | 339 | 26 | 44.4 | 136.5 |
| 100 | 12 1/2 | 16 7/8 | 10 | 13 5/8 | 1 1/8 | 113 | 348 | 316 | 428 | 254 | 347 | 27 | 51.3 | 157.9 |
| 125 | 12 7/8 | 17 1/2 | 10 3/8 | 14 1/4 | 1 1/8 | 126 | 387 | 328 | 445 | 264 | 361 | 27 | 57.1 | 175.5 |
| 150 | 13 3/4 | 18 1/2 | 11 | 15 1/4 | 1 1/8 | 152 | 467 | 350 | 470 | 279 | 388 | 29 | 68.8 | 211.8 |
| 175 | 14 3/8 | 19 3/8 | 11 1/2 | 15 3/4 | 1 3/8 | 191 | 587 | 366 | 492 | 292 | 400 | 34 | 86.5 | 266.3 |
| 200 | 15 1/4 | 20 1/4 | 12 1/4 | 16 3/4 | 1 3/8 | 206 | 634 | 386 | 514 | 311 | 425 | 35 | 93.5 | 287.6 |
| 225 | 15 1/2 | 20 7/8 | 12 1/2 | 16 3/4 | 1 5/8 | 239 | 736 | 395 | 531 | 318 | 425 | 40 | 108.5 | 333.8 |
| 250 | 16 | 21 1/2 | 12 5/8 | 17 3/8 | 1 1/2 | 250 | 769 | 407 | 545 | 320 | 440 | 38 | 113.4 | 348.8 |
| 275 | 16 1/2 | 22 5/8 | 12 1/4 | 18 1/8 | 1 3/8 | 296 | 910 | 419 | 575 | 310 | 460 | 34 | 134.2 | 412.8 |
| 300 | 16 3/4 | 22 3/4 | 13 3/8 | 18 1/4 | 1 3/8 | 306 | 943 | 425 | 578 | 339 | 462 | 36 | 139.0 | 427.7 |
| 400 | 18 1/2 | 24 1/2 | 14 1/2 | 19 1/4 | 1 5/8 | 396 | 1219 | 470 | 623 | 368 | 490 | 42 | 179.7 | 552.9 |

BILGE MEASUREMENTS:



BOWL, BASIN, CYLINDER, BUC SHAPE MEASUREMENTS:



| Desc. | BOWL SHAPE | | | | | | Dimensions: IN | | | | | | Capacity: LBS | | | Metric-Dimensions: MM | | | | | | Capacity: KG | | |
|--------|------------|--------|-----|-------|------|-------|----------------|-----|-----|------|-----|-------|---------------|----|-----|-----------------------|----|-------|-----|----|-----|--------------|----|-------|
| | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass |
| 200-B | 22 1/4 | 15 | 12 | 1 1/2 | 216 | 665 | 565 | 382 | 305 | 40 | 98 | 302 | | | | | | | | | | | | |
| 300-B | 22 1/2 | 18 1/2 | 12 | 1 5/8 | 300 | 924 | 572 | 470 | 305 | 40 | 136 | 419 | | | | | | | | | | | | |
| 350-B | 27 1/8 | 16 | 12 | 1 5/8 | 365 | 1124 | 690 | 406 | 305 | 42 | 166 | 510 | | | | | | | | | | | | |
| 400-B | 27 3/8 | 17 1/2 | 12 | 1 5/8 | 421 | 1297 | 695 | 445 | 305 | 42 | 191 | 588 | | | | | | | | | | | | |
| 450-B | 27 3/8 | 19 | 12 | 1 5/8 | 477 | 1469 | 695 | 483 | 305 | 42 | 216 | 666 | | | | | | | | | | | | |
| 500-B | 28 | 20 1/2 | 12 | 1 5/8 | 533 | 1642 | 710 | 520 | 305 | 42 | 242 | 745 | | | | | | | | | | | | |
| 600-B | 28 1/8 | 22 3/4 | 12 | 1 5/8 | 621 | 1913 | 715 | 577 | 305 | 42 | 282 | 868 | | | | | | | | | | | | |
| 700-B | 34 | 22 | 15 | 1 3/4 | 700 | 2156 | 865 | 560 | 382 | 45 | 318 | 978 | | | | | | | | | | | | |
| 800-B | 34 1/4 | 23 3/4 | 15 | 1 3/4 | 800 | 2464 | 870 | 603 | 382 | 45 | 363 | 1118 | | | | | | | | | | | | |
| 900-B | 34 1/2 | 25 1/2 | 15 | 1 3/4 | 900 | 2772 | 875 | 648 | 382 | 45 | 408 | 1257 | | | | | | | | | | | | |
| 1000-B | 34 5/8 | 28 | 15 | 1 3/4 | 1000 | 3080 | 880 | 712 | 382 | 45 | 454 | 1397 | | | | | | | | | | | | |

| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass |
|---------|--------|----|-----|-------|-----|-------|-----|-----|-----|------|-----|-------|
| 1016 | 17 5/8 | 16 | 13 | 1 3/8 | 155 | 477 | 448 | 406 | 330 | 36 | 70 | 217 |
| 1020 | 17 5/8 | 20 | 13 | 1 3/8 | 214 | 659 | 448 | 508 | 330 | 36 | 97 | 299 |
| 1021 | 17 5/8 | 21 | 13 | 1 3/8 | 227 | 699 | 448 | 533 | 330 | 36 | 103 | 317 |
| 1023 | 17 5/8 | 23 | 13 | 1 3/8 | 257 | 792 | 448 | 584 | 330 | 36 | 117 | 359 |
| 1024 | 17 5/8 | 24 | 13 | 1 3/8 | 272 | 838 | 448 | 610 | 330 | 36 | 123 | 380 |
| 1026 LB | 17 5/8 | 26 | 14 | 1 3/8 | 304 | 936 | 448 | 660 | 355 | 36 | 138 | 425 |
| 1028 | 17 5/8 | 28 | 13 | 1 3/8 | 328 | 1010 | 448 | 712 | 330 | 36 | 149 | 458 |

| 2000 BASIN SERIES | | Dimensions: IN | | | Capacity: LBS | | Metric-Dimensions: MM | | | | Capacity: KG | |
|-------------------|--|----------------|--|--|---------------|--|-----------------------|--|--|--|--------------|--|
|-------------------|--|----------------|--|--|---------------|--|-----------------------|--|--|--|--------------|--|

| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass |
|---------|--------|----|--------|-------|-----|-------|-----|-----|-----|------|-----|-------|
| 2150 | 20 3/4 | 14 | 12 1/4 | 1 3/8 | 146 | 448 | 527 | 356 | 310 | 34 | 66 | 203 |
| 2225 | 20 3/4 | 17 | 12 1/4 | 1 3/8 | 198 | 611 | 527 | 432 | 310 | 34 | 90 | 277 |
| 2250 | 20 3/4 | 18 | 12 1/4 | 1 3/8 | 231 | 713 | 527 | 458 | 310 | 34 | 105 | 323 |
| 2275 | 20 3/4 | 19 | 12 1/4 | 1 3/8 | 249 | 767 | 527 | 483 | 310 | 34 | 113 | 348 |
| 2325 | 20 3/4 | 21 | 12 1/4 | 1 3/8 | 265 | 815 | 527 | 534 | 310 | 34 | 120 | 370 |
| 2375 | 20 3/4 | 23 | 12 1/4 | 1 3/8 | 309 | 951 | 527 | 585 | 310 | 34 | 140 | 431 |
| 2425 | 20 3/4 | 25 | 12 1/4 | 1 3/8 | 379 | 1168 | 527 | 635 | 310 | 34 | 172 | 530 |
| 2450 | 20 3/4 | 25 | 12 1/4 | 1 3/8 | 379 | 1168 | 527 | 635 | 310 | 34 | 172 | 530 |
| 2500 | 20 3/4 | 28 | 12 1/4 | 1 3/8 | 456 | 1406 | 527 | 711 | 310 | 34 | 207 | 638 |
| 2650-30 | 20 1/2 | 30 | 14 1/2 | 2 | | | 520 | 762 | 368 | 45 | | |
| 2650-34 | 20 3/4 | 34 | 14 1/2 | 1 3/4 | | | 527 | 863 | 368 | 45 | | |

| 3000 BASIN SERIES | | Dimensions: IN | | | Capacity: LBS | | Metric-Dimensions: MM | | | | Capacity: KG | |
|-------------------|--|----------------|--|--|---------------|--|-----------------------|--|--|--|--------------|--|
|-------------------|--|----------------|--|--|---------------|--|-----------------------|--|--|--|--------------|--|

| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass |
|-------|-----|----|--------|-------|-----|-------|-----|-----|-----|------|-----|-------|
| 3300 | 24 | 15 | 14 1/2 | 1 1/2 | 283 | 872 | 610 | 381 | 368 | 38 | 128 | 395 |
| 3350 | 24 | 17 | 14 1/2 | 1 5/8 | 335 | 1032 | 610 | 432 | 368 | 42 | 152 | 468 |
| 3450 | 24 | 21 | 14 1/2 | 1 1/2 | 439 | 1352 | 610 | 534 | 368 | 38 | 199 | 613 |
| 3500 | 24 | 23 | 14 1/2 | 1 1/2 | 490 | 1509 | 610 | 584 | 368 | 38 | 222 | 685 |
| 3550 | 24 | 25 | 14 1/2 | 1 1/2 | 517 | 1592 | 610 | 635 | 368 | 38 | 235 | 722 |
| 3625 | 24 | 27 | 14 1/2 | 1 1/2 | 569 | 1753 | 610 | 685 | 368 | 38 | 258 | 795 |
| 3635 | 24 | 28 | 14 1/2 | 1 1/2 | 631 | 1943 | 610 | 710 | 368 | 38 | 286 | 882 |
| 3700 | 24 | 30 | 14 1/2 | 1 1/2 | 673 | 2073 | 610 | 762 | 368 | 38 | 305 | 940 |
| 3750 | 24 | 32 | 14 1/2 | 1 1/2 | 722 | 2224 | 610 | 813 | 368 | 38 | 327 | 1009 |
| 3800 | 24 | 36 | 14 1/2 | 1 1/2 | 826 | 2544 | 610 | 915 | 368 | 38 | 375 | 1154 |
| 3034 | 24 | 34 | 18 3/4 | 1 3/4 | | | 610 | 863 | 477 | 45 | | |
| 3039 | 24 | 39 | 18 3/4 | 2 | | | 610 | 990 | 477 | 50 | | |

| 4000 BASIN SERIES | | Dimensions: IN | | | Capacity: LBS | | Metric-Dimensions: MM | | | | Capacity: KG | |
|-------------------|--|----------------|--|--|---------------|--|-----------------------|--|--|--|--------------|--|
|-------------------|--|----------------|--|--|---------------|--|-----------------------|--|--|--|--------------|--|

| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass |
|---------|--------|----|--------|--------|-----|-------|-----|-----|-----|------|-----|-------|
| 4425 | 20 1/2 | 25 | 12 1/4 | 1 3/4* | | | 520 | 635 | 311 | 45* | | |
| 4475 | 20 1/2 | 27 | 12 1/4 | 1 3/4* | | | 520 | 685 | 311 | 45* | | |
| 4500 | 20 1/2 | 28 | 12 1/4 | 1 3/4* | | | 520 | 710 | 311 | 45* | | |
| 4500 | 20 1/2 | 28 | 12 1/4 | 1 3/4* | | | 520 | 710 | 311 | 45* | | |
| 4800-33 | 20 1/2 | 33 | 14 1/2 | 1 3/4* | 541 | 1666 | 521 | 838 | 368 | 45* | 245 | 756 |

| 20,000 BASIN SERIES | | Dimensions: IN | | | Capacity: LBS | | Metric-Dimensions: MM | | | | Capacity: KG | |
|---------------------|--|----------------|--|--|---------------|--|-----------------------|--|--|--|--------------|--|
|---------------------|--|----------------|--|--|---------------|--|-----------------------|--|--|--|--------------|--|

| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass |
|------------|--------|--------|-----|-------|------|-------|-----|-----|-----|------|-----|-------|
| 20700 | 30 3/4 | 25 | 15 | 1 3/4 | 675 | 2079 | 781 | 635 | 38 | 46 | 306 | 943 |
| 20890 | 30 3/4 | 30 | 15 | 1 3/4 | 900 | 2772 | 781 | 762 | 381 | 46 | 408 | 1257 |
| 20890 | 30 3/4 | 30 | 15 | 1 3/4 | 900 | 2772 | 781 | 762 | 381 | 46 | 408 | 1257 |
| 21000 | 30 3/4 | 33 | 15 | 1 3/4 | 1035 | 3188 | 781 | 838 | 381 | 46 | 469 | 1446 |
| 21115 | 30 3/4 | 35 | 15 | 1 3/4 | 1125 | 3465 | 781 | 889 | 381 | 46 | 510 | 1572 |
| 21115-36 | 30 3/4 | 36 | 15 | 1 3/4 | 1157 | 3564 | 781 | 915 | 381 | 46 | 525 | 1616 |
| 21200-37.5 | 30 3/4 | 37 1/2 | 15 | 1 3/4 | 1237 | 3810 | 781 | 952 | 381 | 46 | 561 | 1728 |
| 21280 | 30 3/4 | 38 | 15 | 1 3/4 | 1254 | 3862 | 781 | 965 | 381 | 46 | 569 | 1752 |

| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass |
|------------|--------|--------|--------|-------|------|-------|-----|------|------|------|-----|-------|
| 21200-38.5 | 30 3/4 | 38 1/2 | 15 | 1 3/4 | 1270 | 3912 | 781 | 978 | 381 | 46 | 576 | 1774 |
| 21300 | 30 3/4 | 42 | 15 | 1 3/4 | 1440 | 4435 | 781 | 1067 | 381 | 46 | 653 | 2012 |
| 21350 | 30 3/4 | 46 | 15 | 1 3/4 | 1620 | 4990 | 781 | 1168 | 381 | 46 | 735 | 2263 |
| 20026 LB | 30 3/4 | 26 | 26 | 1 7/8 | 936 | 2883 | 781 | 660 | 660 | 48 | 425 | 1308 |
| 20030 LB | 30 3/4 | 30 | 26 | 1 7/8 | 1110 | 3419 | 781 | 762 | 660 | 48 | 503 | 1551 |
| 20038 LB | 30 3/4 | 38 | 26 | 1 7/8 | 1458 | 4491 | 781 | 965 | 660 | 48 | 661 | 2037 |
| 23550-15 | 31 1/8 | 15 | 27 7/8 | | | | 790 | 381 | 708 | | | |
| 23550-23 | 31 1/8 | 23 | 27 7/8 | | | | 790 | 584 | 708 | | | |
| 23550 | 31 1/8 | 45 | 27 7/8 | | | | | 790 | 1143 | 708 | | |

| 30,000 BASIN SERIES | | | | | | | Dimensions: IN | | Capacity: LBS | | | Metric-Dimensions: MM | | | Capacity: KG | |
|---------------------|--------|--------|-----|-------|------|-------|----------------|------|---------------|------|-----|-----------------------|--|--|--------------|--|
| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass | | | | |
| 30630-20.5 | 28 1/8 | 20 1/2 | 15 | 1 3/4 | 563 | 1734 | 715 | 520 | 382 | 44 | 255 | 787 | | | | |
| 30630 | 28 1/8 | 23 1/2 | 15 | 1 3/4 | 630 | 1940 | 715 | 597 | 382 | 44 | 286 | 880 | | | | |
| 30720 | 28 1/8 | 26 | 15 | 1 3/4 | 733 | 2258 | 715 | 660 | 381 | 44 | 332 | 1024 | | | | |
| 30765 | 28 1/8 | 27 1/4 | 15 | 1 3/4 | 765 | 2356 | 715 | 693 | 382 | 44 | 347 | 1069 | | | | |
| 30810 | 28 1/8 | 28 3/4 | 15 | 1 3/4 | 822 | 2532 | 715 | 730 | 382 | 44 | 373 | 1148 | | | | |
| 30850 | 28 1/8 | 30 | 15 | 1 3/4 | 835 | 2572 | 715 | 762 | 382 | 44 | 379 | 1167 | | | | |
| 30900 | 28 1/8 | 31 7/8 | 15 | 1 3/4 | 932 | 2871 | 715 | 810 | 382 | 44 | 423 | 1302 | | | | |
| 31000 | 28 1/8 | 34 7/8 | 15 | 1 3/4 | 1057 | 3256 | 715 | 886 | 382 | 44 | 479 | 1477 | | | | |
| 31100 | 28 1/8 | 37 3/8 | 15 | 1 3/4 | 1162 | 3579 | 715 | 950 | 381 | 44 | 527 | 1623 | | | | |
| 31150 | 28 1/8 | 38 3/8 | 15 | 1 3/4 | 1203 | 3705 | 715 | 975 | 382 | 44 | 546 | 1681 | | | | |
| 31270 | 28 1/8 | 41 3/8 | 15 | 1 3/4 | 1286 | 3961 | 715 | 1050 | 381 | 44 | 583 | 1797 | | | | |
| 30045 | 28 1/8 | 45 | 15 | 1 3/4 | 1391 | 4284 | 715 | 1143 | 381 | 44 | 631 | 1943 | | | | |
| 30026 LB | 28 1/8 | 26 | 21 | 1 3/4 | 765 | 2356 | 715 | 660 | 533 | 44 | 347 | 1069 | | | | |
| 30041 LB | 28 1/8 | 41 | 21 | 1 3/4 | 1289 | 3970 | 715 | 1041 | 533 | 44 | 585 | 1801 | | | | |
| 33045 LB | 28 1/8 | 45 | 21 | 1 3/4 | 1430 | 4404 | 715 | 1143 | 533 | 44 | 649 | 1998 | | | | |
| 30046 LB | 28 1/8 | 46 | 21 | 1 3/4 | 1465 | 4512 | 715 | 1168 | 533 | 44 | 665 | 2047 | | | | |

| 40,000 BASIN SERIES | | | | | | | Dimensions: IN | | Capacity: LBS | | | Metric-Dimensions: MM | | | Capacity: KG | |
|---------------------|--------|--------|-----|-------|------|-------|----------------|------|---------------|------|-----|-----------------------|--|--|--------------|--|
| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass | | | | |
| 41200 | 34 3/8 | 32 1/2 | 15 | 1 3/4 | 1200 | 3696 | 872 | 826 | 382 | 44 | 544 | 1677 | | | | |
| 41300 | 34 3/4 | 34 | 15 | 1 3/4 | 1300 | 4004 | 882 | 863 | 382 | 44 | 590 | 1816 | | | | |
| 41500 | 34 3/8 | 38 1/2 | 15 | 1 3/4 | 1500 | 4620 | 872 | 977 | 382 | 44 | 680 | 2096 | | | | |
| 41550 | 34 3/8 | 39 1/2 | 15 | 1 3/4 | 1539 | 4740 | 872 | 1000 | 381 | 44 | 698 | 2150 | | | | |
| 41800 | 34 3/4 | 44 | 15 | 1 3/4 | 1800 | 5544 | 882 | 1117 | 382 | 44 | 816 | 2515 | | | | |
| 42000 | 34 3/4 | 48 | 15 | 1 3/4 | 2000 | 6160 | 882 | 1219 | 382 | 44 | 907 | 2794 | | | | |
| 41400 LB | 34 3/8 | 36 1/2 | 26 | 1 3/4 | | | 872 | 927 | 660 | 44 | | | | | | |
| 41600 LB | 34 3/8 | 40 1/2 | 26 | 1 3/4 | | | 872 | 1028 | 660 | 44 | | | | | | |

| 1000 XU GLAZE BASIN | | | | | | | Dimensions: IN | | Capacity: LBS | | | Metric-Dimensions: MM | | | Capacity: KG | |
|---------------------|--------|----|--------|-------|-----|-------|----------------|-----|---------------|------|-----|-----------------------|--|--|--------------|--|
| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass | | | | |
| 1014XU | 20 3/4 | 14 | 12 1/4 | 1 3/8 | 146 | 448 | 527 | 356 | 310 | 34 | 66 | 203 | | | | |
| 1015XU | 20 3/4 | 15 | 12 1/4 | 1 3/8 | 168 | 516 | 527 | 381 | 310 | 34 | 76 | 234 | | | | |
| 1017XU | 20 3/4 | 17 | 12 1/4 | 1 3/8 | 198 | 611 | 527 | 432 | 310 | 34 | 90 | 277 | | | | |
| 1018XU | 20 3/4 | 18 | 12 1/4 | 1 3/8 | 231 | 713 | 527 | 458 | 310 | 34 | 105 | 323 | | | | |
| 1019XU | 20 3/4 | 19 | 12 1/4 | 1 3/8 | 249 | 767 | 527 | 483 | 310 | 34 | 113 | 348 | | | | |
| 1021XU | 20 3/4 | 21 | 12 1/4 | 1 3/8 | 265 | 815 | 527 | 534 | 310 | 34 | 120 | 370 | | | | |
| 1023XU | 20 3/4 | 23 | 12 1/4 | 1 3/8 | 309 | 951 | 527 | 585 | 310 | 34 | 140 | 431 | | | | |
| 1025XU | 20 3/4 | 25 | 12 1/4 | 1 3/8 | 379 | 1168 | 527 | 635 | 310 | 34 | 172 | 530 | | | | |
| 1026XU | 20 3/4 | 26 | 12 1/4 | 1 3/8 | 410 | 1263 | 527 | 660 | 310 | 34 | 186 | 573 | | | | |
| 1027XU | 20 3/4 | 27 | 12 1/4 | 1 3/8 | 428 | 1317 | 527 | 686 | 310 | 34 | 194 | 598 | | | | |
| 1028XU | 20 3/4 | 28 | 12 1/4 | 1 3/8 | 456 | 1406 | 527 | 711 | 310 | 34 | 207 | 638 | | | | |
| 1029XU | 20 3/4 | 29 | 12 1/4 | 1 3/8 | 481 | 1480 | 527 | 737 | 310 | 34 | 218 | 671 | | | | |
| 1030XU | 20 3/4 | 30 | 12 1/4 | 1 3/8 | 507 | 1562 | 527 | 762 | 310 | 34 | 230 | 708 | | | | |

| 2000 XU GLAZE BASIN | | Dimensions: IN | | | Capacity: LBS | | Metric-Dimensions: MM | | | | Capacity: KG | |
|---------------------|-----|----------------|--------|-------|---------------|-------|-----------------------|-----|-----|------|--------------|-------|
| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass |
| 2414XU | 24 | 14 | 14 1/2 | 1 1/2 | 255 | 785 | 610 | 356 | 368 | 38 | 116 | 356 |
| 2416XU | 24 | 16 | 14 1/2 | 1 1/2 | 302 | 930 | 610 | 406 | 368 | 38 | 137 | 422 |
| 2418XU | 24 | 18 | 14 1/2 | 1 1/2 | 362 | 1115 | 610 | 457 | 368 | 38 | 164 | 506 |
| 2420XU | 24 | 20 | 14 1/2 | 1 1/2 | 414 | 1275 | 610 | 508 | 368 | 38 | 188 | 578 |
| 2421XU | 24 | 21 | 14 1/2 | 1 1/2 | 439 | 1352 | 610 | 534 | 368 | 38 | 199 | 613 |
| 2423XU | 24 | 23 | 14 1/2 | 1 1/2 | 482 | 1485 | 610 | 584 | 368 | 38 | 219 | 673 |
| 2424XU | 24 | 24 | 14 1/2 | 1 1/2 | 495 | 1525 | 610 | 610 | 368 | 38 | 225 | 692 |
| 2425XU | 24 | 25 | 14 1/2 | 1 1/2 | 517 | 1592 | 610 | 635 | 368 | 38 | 235 | 722 |
| 2426XU | 24 | 26 | 14 1/2 | 1 1/2 | 540 | 1663 | 610 | 660 | 368 | 38 | 245 | 754 |
| 2427XU | 24 | 27 | 14 1/2 | 1 1/2 | 569 | 1753 | 610 | 685 | 368 | 38 | 258 | 795 |
| 2428XU | 24 | 28 | 14 1/2 | 1 1/2 | 631 | 1943 | 610 | 711 | 368 | 38 | 286 | 882 |
| 2429XU | 24 | 29 | 14 1/2 | 1 1/2 | 650 | 2002 | 610 | 737 | 368 | 38 | 295 | 908 |
| 2430XU | 24 | 30 | 14 1/2 | 1 1/2 | 673 | 2073 | 610 | 762 | 368 | 38 | 305 | 940 |
| 2431XU | 24 | 31 | 14 1/2 | 1 1/2 | 698 | 2150 | 610 | 787 | 368 | 38 | 317 | 975 |
| 2432XU | 24 | 32 | 14 1/2 | 1 1/2 | 722 | 2224 | 610 | 813 | 368 | 38 | 327 | 1009 |
| 2434XU | 24 | 34 | 14 1/2 | 1 1/2 | 770 | 2372 | 610 | 863 | 368 | 38 | 349 | 1076 |
| 2436XU | 24 | 36 | 14 1/2 | 1 1/2 | 826 | 2544 | 610 | 914 | 368 | 38 | 375 | 1154 |

| BUC SHAPE | | Dimensions: IN | | | Capacity: LBS | | Metric-Dimensions: MM | | | | Capacity: KG | |
|-----------|--------|----------------|--------|------|---------------|-------|-----------------------|-----|-----|------|--------------|-------|
| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass |
| BUC300 | 24 1/4 | 27 1/2 | 14 | | | | 615 | 700 | 356 | | | |
| BUC300 | 24 1/4 | 27 1/2 | 14 | | | | 615 | 700 | 356 | | | |
| BUC350 | 24 1/4 | 31 1/2 | 14 | | | | 615 | 800 | 356 | | | |
| BUC500 | 30 1/2 | 29 1/2 | 15 3/4 | | | | 775 | 750 | 400 | | | |
| BUC600 | 30 3/4 | 35 3/8 | 15 3/4 | | | | 780 | 900 | 400 | | | |

| CYLINDER SHAPE | | Dimensions: IN | | | Capacity: LBS | | Metric-Dimensions: MM | | | | Capacity: KG | |
|----------------|--------|----------------|--------|-------|---------------|-------|-----------------------|-----|-----|------|--------------|-------|
| Desc. | TOD | HT | BOD | Wall | Al | Brass | TOD | HT | BOD | Wall | Al | Brass |
| P 5 | 3 1/2 | 6 | 3 1/2 | | 5 | 15 | 89 | 152 | 89 | | 2.3 | 7.0 |
| P 12 | 4 1/4 | 6 3/4 | 4 1/4 | | 12 | 37 | 108 | 171 | 108 | | 5.4 | 16.8 |
| P 17 | 4 1/2 | 8 | 4 1/2 | | 17 | 52 | 114 | 203 | 114 | | 7.7 | 23.8 |
| P 30 | 5 3/8 | 9 3/4 | 5 1/4 | | 28 | 86 | 135 | 248 | 133 | | 12.7 | 39.1 |
| 171 | 6 1/2 | 11 7/8 | 6 5/8 | | | | 165 | 302 | 168 | | | |
| 509 | 9 | 14 | 8 1/2 | | 100 | 308 | 230 | 355 | 216 | | 45.4 | 139.7 |
| 515 | 10 2/4 | 14 3/4 | 10 1/4 | | | | 267 | 374 | 260 | | | |
| 529-17 | 12 1/4 | 16 3/4 | 11 7/8 | 1 | 300 | 924 | 311 | 426 | 303 | 25 | 136.1 | 419.1 |
| 529-19 | 12 1/4 | 18 3/4 | 11 7/8 | 1 | 350 | 1078 | 311 | 477 | 303 | 25 | 158.8 | 489.0 |
| 100LUG17.2 | 14 | 17 1/4 | 14 | 7/8 | | | 356 | 435 | 356 | 23 | | |
| 564-20.25 | 15 1/8 | 20 1/4 | 15 1/8 | 1 1/8 | 600 | 1848 | 384 | 515 | 384 | 30 | 272.2 | 838.3 |
| 564-22 | 15 1/8 | 22 | 15 1/8 | 1 1/8 | 635 | 1956 | 384 | 558 | 384 | 30 | 288.0 | 887.2 |
| 564-25LUG | 15 1/8 | 25 | 15 1/8 | 1 1/8 | | | 384 | 635 | 384 | 30 | | |
| 576-22 | 16 | 22 | 16 | | | | 407 | 559 | 407 | | | |
| 576-25 | 16 | 25 | 16 | | | | 407 | 635 | 407 | | | |
| 576-26.5 | 16 | 26 1/2 | 16 | | | | 407 | 673 | 407 | | | |
| 581-22.75 | 18 1/2 | 22 3/4 | 18 1/2 | | | | 470 | 578 | 470 | | | |
| 581-26 | 18 1/2 | 26 | 18 1/2 | | | | 470 | 660 | 470 | | | |
| 581-33.5 | 18 1/2 | 33 1/2 | 18 1/2 | | | | 470 | 850 | 470 | | | |
| 582 | 19 | 33 1/2 | 18 3/4 | | | | 483 | 851 | 475 | | | |
| 915 | 20 1/2 | 30 | 16 | 1 5/8 | | | 520 | 762 | 406 | 42 | | |
| 915-32 | 20 1/2 | 32 | 16 | 1 5/8 | | | 520 | 813 | 406 | 42 | | |
| 819 | 24 | 32 | 18 3/4 | 1 5/8 | | | 610 | 813 | 477 | 42 | | |

INSTALLING THE CRUCIBLE

The use of a base block made of the same material will ensure uniform heating of the crucible base and help reduce thermal strains.

The base block should have the same or slightly larger diameter as the base of the crucible to provide adequate support.

For optimum heat transfer and melting efficiency, the height of the base block should be such that the base of the crucibles is level with the center line of the burner. The base block and crucible should be installed centrally in the furnace.

BALE OUT FURNACES

The crucible should have a 1/8" gap between the top edge of the crucible and the cover, to allow for expansion of the crucible. Too small of a space can lead to cracking at the top of the crucible.

Place a layer of insulating material, such as ceramic fiber between the cover and the top edge of the crucible to seal the gap. Ensure this insulation touches only the top edge of the crucible and not the side. The top steel ring must have a 1/2" space between it and the inside of the crucible to allow for expansion. Too small of a space can lead to cracking at the top of the crucible.

SAFETY

Proper safety clothing must be worn at all times, refer to AFS standards. Ensure that no moisture is introduced into the melt.

TILTING FURNACES

Cement the base block on the floor of the furnace; make sure it is centrally located and level.

Place the crucible centrally onto the base block. Use Morcem 900 to bond base block and crucible together.

Place the grip bricks 3" below the top edge of the crucible, leaving a 1/4" space between the crucible wall and grip bricks. Insert cardboard or carbonaceous material in the space.

Leave a space of 1-1/2" below the spout for expansion.



CRUCIBLE CARE



Store crucibles in a dry, warm area.



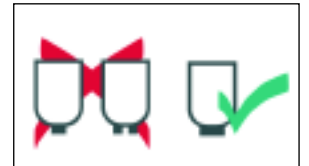
Do not stack inside another.



Do not roll crucibles.



Check for cracks or transport damage before use.



Base block must be flat, larger than crucible bottom and centered.



Use a ceramic fiber blanket to seal. Allow space between top and sides of furnace.



Use locating bricks in tilting furnaces, to allow for expansion.



Tangential fire around crucible.



Do not drop charge—slowly lower in with tongs.



First charge with returns, then ingots on top.



Only add flux after metal is molten.



Avoid premature crucible failure by ensuring drain hole is sealed.



For lift-out, tongs must be placed on lower third of crucible. Fit tongs evenly on both sides.



Empty crucible before removing from furnace. Do not let metal solidify in crucible.



Clean carefully every day while still hot.



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