# DELIVERY RANGE - HARDNESS REFERENCE BLOCK

## THE FOLLOWING DESIGNS ARE CURRENTLY AVAILABLE:

### HARDNESS TEST ACCORDING TO BRINELL

**Standard:** DIN EN ISO 6506-3

**Standard:** ASTM E 10

**Optional:** Multiple calibration, grid lines

## BRINELL

Hardness values may differ - Hardness values are considered as a directive

| Dimension | Process | Hardness values | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60x60x16 mm<br>Test area tarnished | HBW 2,5/187,5 | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | 600 | |
| | HBW 2,5/62,5 | | 200 | 250 | | | | | | | | |
| 100x100x16 mm<br>Test area tarnished | HBW 10/3000 | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | 600 | |
| | HBW 10/1500 | | 200 | 250 | 300 | | | | | | | |
| | HBW 10/1000 | | 200 | 250 | | | | | | | | |
| | HBW 5/750 | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | 600 | |
| | HBW 5/250 | | 200 | 250 | | | | | | | | |
| | HBW 2,5/187,5 | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | 600 | |
| | HBW 2,5/62,5 | | 200 | 250 | | | | | | | | |
| Ø115x16 mm<br>Test area polished | HBW 10/3000 | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | 600 | |
| | HBW 10/1500 | | 200 | 250 | 300 | | | | | | | |
| | HBW 10/1000 | | 200 | 250 | | | | | | | | |
| | HBW 5/750 | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | 600 | |
| | HBW 5/250 | | 200 | 250 | | | | | | | | |
| | HBW 2,5/187,5 | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | 600 | |
| | HBW 2,5/62,5 | | 200 | 250 | | | | | | | | |
| | HBW 1/30 | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | 600 | |
| | HBW 1/10 | | 200 | 250 | | | | | | | | |
| Ø125x16 mm<br>Test area polished | HBW 10/3000 | 150 | | | | | | | | | | |
| | HBW 10/1500 | 150 | | | | | | | | | | |
| | HBW 10/1000 | 150 | | | | | | | | | | |
| | HBW 5/750 | 150 | | | | | | | | | | |
| | HBW 5/250 | 150 | | | | | | | | | | |
| | HBW 2,5/187,5 | 150 | | | | | | | | | | |
| | HBW 2,5/62,5 | 150 | | | | | | | | | | |
| | HBW 1/30 | 150 | | | | | | | | | | |
| | HBW 1/10 | 150 | | | | | | | | | | |

**Note**

Please note that according to ASTM E 10 - Table A4.1, the maximum permissible surface area of the hardness reference block is limited to 150 cm2 (penetrating spheres Ø5 mm + Ø10 mm) or 40 cm2 (penetrating spheres Ø1 mm + Ø2.5 mm). As the permissible area is exceeded when calibrating with Ø1 mm + Ø2.5 mm indenter beads, the ASTM usable area of the hardness reference block is labelled with a square having an edge length of 63 mm. The additional area is valid according to DIN EN ISO.

# DELIVERY RANGE - HARDNESS REFERENCE BLOCK

## THE FOLLOWING DESIGNS ARE CURRENTLY AVAILABLE:

### HARDNESS TEST ACCORDING ROCKWELL

**Standard:** DIN EN ISO 6508-3

**Standard:** ASTM E 18

**Optional:** Multiple calibration, grid lines

## ROCKWELL

Hardness values may differ - Hardness values are considered as a directive

| Dimension | Process | Hardness values | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60x60x16 mm<br>Test area tarnished | HRC | | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 62/63 |
| | HRB | | 98 | | | | | | | | | |
| | HRA | | 60 | 63 | 65 | 68 | 70 | 73 | 76 | 79 | 81 | 83 |
| | HR45N | | 18 | 25 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 69 |
| | HR30N | | 40 | 44 | 49 | 55 | 60 | 63 | 67 | 72 | 76 | 79 |
| | HR15N | | 68 | 71 | 74 | 77 | 80 | 82 | 85 | 87 | 90 | 91 |
| | HR30T | | 80 | 82 | | | | | | | | |
| | HR15T | | 91 | 92 | 93 | | | | | | | |
| 100x100x16 mm<br>Test area tarnished | HRC | | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 62/63 |
| | HRB | | 98 | | | | | | | | | |
| | HRA | | 60 | 63 | 65 | 68 | 70 | 73 | 76 | 79 | 81 | 83 |
| | HR45N | | 18 | 25 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 69 |
| | HR30N | | 40 | 44 | 49 | 55 | 60 | 63 | 67 | 72 | 76 | 79 |
| | HR15N | | 68 | 71 | 74 | 77 | 80 | 82 | 85 | 87 | 90 | 91 |
| | HR30T | | 80 | 82 | | | | | | | | |
| | HR15T | | 91 | 92 | 93 | | | | | | | |
| Ø65x10 mm<br>Test area polished | HRC | | | | 31 | | 42 | | 53 | 57 | 60 | 64 |
| | HRA | | | | 66 | | 71 | | 77 | 80 | 82 | 83 |
| | HR45N | | | | 32 | | 45 | | 58 | 62 | 66 | 70 |
| | HR30N | | | | 51 | | 61 | | 71 | 74 | 77 | 80 |
| | HR15N | | | | 75 | | 81 | | 86 | 88 | 90 | 91 |
| Ø115x12 mm<br>Test area polished | HRC | | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 62/63 |
| | HRB | | 98 | | | | | | | | | |
| | HRA | | 60 | 63 | 65 | 68 | 70 | 73 | 76 | 79 | 81 | 83 |
| | HR45N | | 18 | 25 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 69 |
| | HR30N | | 40 | 44 | 49 | 55 | 60 | 63 | 67 | 72 | 76 | 79 |
| | HR15N | | 68 | 71 | 74 | 77 | 80 | 82 | 85 | 87 | 90 | 91 |
| | HR30T | | 80 | 82 | | | | | | | | |
| | HR15T | | 91 | 92 | 93 | | | | | | | |

**Note**
Please note that according to ASTM E 18 - Table A4.1, the maximum permissible surface area of the hardness reference block is limited to 2,600 mm2. As the resulting surface area of the SIB hardness reference block is sometimes larger than the specifications of ASTM E 18, the surface area is limited to 2,600 mm2.

# DELIVERY RANGE - HARDNESS REFERENCE BLOCK

**THE FOLLOWING DESIGNS ARE CURRENTLY AVAILABLE:**

**HARDNESS TEST ACCORDING VICKERS**

**Standard:** DIN EN ISO 6507-3

**Standard:** ASTM E92

**Optional:** Multiple calibration, grid lines

## VICKERS

Hardness values may differ - Hardness values are considered as a directive

| Dimension | Process | Hardness values | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø40x10 mm<br>Test area polished | HV 0,1 | 200 | 300 | 400 | 550* | 620* | 700* | 780* |
| | HV 0,2 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 0,3 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 0,5 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| Ø65x10 mm<br>Test area polished | HV 1 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 2 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 3 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 5 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 10 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 20 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 30 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 40 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 50 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 60 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 100 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 125 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |
| | HV 150 | 200 | 300 | 400 | 550 | 620 | 700 | 780 |

**Note**
For hardnesses marked with *, only calibration according to ASTM E92 is possible.