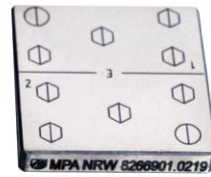
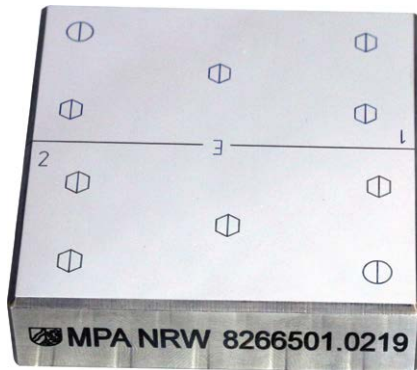




HARDNESS REFERENCE **BLOCKS**

VICKERS HARDNESS REFERENCE BLOCKS



Hardness test blocks serve both for indirect testing and calibration of hardness testing machines, especially for daily verification of the hardness testing machines and thus they are indispensable for quality assurance in hardness testing to secure the correct tests. Our Vickers hardness reference blocks are available in the following sizes:

Vickers:

30x30x6mm [Micro]

60x60x16mm [Macro]

Upon request you will get our hardness reference blocks with laser grid for better coordination of your test indentations and to comply with the distances according to standard. (Grid is only available for macro hardness test blocks)

Hardness reference blocks are used for transmission of the hardness scales and for review of the total error of hardness testers. Hardness reference blocks are made of selected steels with high homogeneity and purity. Along with a special heat treatment a high long-term structural stability which is a prerequisite for high-quality hardness reference blocks is obtained.

Calibration:

All hardness reference blocks are calibrated by a calibration laboratory according to DIN EN ISO 6507-3 or ASTM E92 and receive a DAkkS calibration certificate.



Hardness range < 200 Aluminium

SCALE	HARDNESS				SIZE
HV1	80	110	130	170	Macro 60x60x16mm Aluminium
HV2	80	110	130	170	
HV3	80	110	130	170	
HV5	80	110	130	170	
HV10	80	110	130	170	
HV20	80	110	130	170	
HV30	80	110	130	170	
HV50	80	110	130	170	
HV100	80	110	130	170	

Hardness range < 200 Aluminium

SCALE	HARDNESS															SIZE
HV0,01	200*	250*	300*													Mikro 30x30x6 mm Steel ----- 200-800HV Steel ----- 850-900HV Steel
HV0,015	200*	250*	300*	350*	400*											
HV0,02	200*	250*	300*	350*	400*	450*	500*									
HV0,025	200*	250*	300*	350*	400*	450*	500*	550*	600*	650*	700*					
HV0,05	200	250	300	350	400	450	500*	550*	600*	650*	700*	750*	800*	850*	900*	
HV0,1	200	250	300	350	400	450	500*	550*	600*	650*	700*	750*	800*	850*	900*	
HV0,2	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
HV0,3	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
HV0,5	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
HV1	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	

HV1 hardness reference blocks are available in micro and macro sizes.

HV2	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	Mikro 60x60x16 mm Steel ----- 200-800HV Steel ----- 850-900HV Steel
HV3	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
HV5	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
HV10	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
HV20	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
HV30	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
HV50	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
HV100	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	

*Due to the limitation of the diagonal to 20µm in DIN EN ISO 6507-2, these hardness reference blocks can only be calibrated according to ASTM E92.

ROCKWELL HARDNESS REFERENCE BLOCKS



Hardness reference blocks serve both for indirect testing and calibration of hardness testing machines, especially for daily verification of the hardness testing machines and thus they are indispensable for quality assurance in hardness testing. Our Rockwell hardness reference blocks are available in the following sizes:

Rockwell:

60x60x16mm

Upon request you will get our hardness reference blocks with laser grid for better coordinating of your test indentations and to comply with the distances according to standard.

Hardness reference blocks are used for transmission of the hardness scales and for review of the total error of hardness testers. Hardness reference blocks are made of selected steels with high homogeneity and purity. Along with a special heat treatment a high long-term structural stability which is a prerequisite for high-quality hardness reference blocks is obtained.

Calibration:

All hardness reference blocks are calibrated by a calibration laboratory according to DIN EN ISO 6507-3 or ASTM E92 and receive a DAkkS calibration certificate.

MPA NRW
Materialprüfungsamt Nordrhein-Westfalen
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Hardness ranges

SCALE	HARDNESS																		SIZE		
HRA	31	40	44	53	57	62	65	68	71	73	75	77	79	80	81	82	83	84	85	60x60x16 mm	
HRB	35	64	72	86	93	100															
HRC						25	30	35	40	45	50		55		60		63	65	67		
HRD		10	16	28		42	48	52	56	60	62	65	67	69	71	72	73	75	76		
HRE	73	91	97	106																	
HRF	76	92	97	105																	
HRG			41	62		71	75	78	80	83	85	87	88	89	90	91	91	92	93		
HRK	45	71	78	91		43	50	56	60	64	68	71	73	76	78	79	81	82	84		
HR15N				62		22	31	38	44	50	54	58	61	64	67	69	71	73	74		
HR30N				28																	
HR45N				2																	
HR15T	70	80	82	87	91																
HR30T	37	57	62	72	78																
HR45T	5	36	43	57	66																
HR2,5/31,25	85	89	92																		
HR2,5/62,5	63	74	79	84																	
HR2,5/187,5						60	67	72	77	80											
Material	Aluminium				Steel																

The hardness value is outside the normative permissible range of application of DIN EN ISO 6508-3.