

DIN EN ISO 6507-3:2018-07 (E)

Metallic materials - Vickers hardness test - Part 3: Calibration of reference blocks (ISO 6507-3:2018)

Contents	Page
European foreword	3
Foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Manufacture of reference blocks	5
4.1 General	5
4.2 Thickness	5
4.3 Test surface area	5
4.4 Magnetism	6
4.5 Flatness and parallelism	6
4.6 Surface roughness	6
4.7 Prevention of the regrind of the test surface	6
5 Calibration machine	6
5.1 General	6
5.2 Direct verification	6
5.3 Traceability of verification instruments	6
5.4 Test force	7
5.5 Indenter	7
5.6 Diagonal measuring system	8
6 Calibration procedure	9
7 Number of indentations	9
8 Uniformity of hardness	10
8.1 Relative non-uniformity	10
8.2 Uncertainty of measurement	11
9 Marking	11
10 Calibration certificate	11
11 Validity	12
Annex A (informative) Uncertainty of the mean hardness value of hardness reference blocks	13
Annex B (informative) Adjustment of Köhler illumination systems	18
Bibliography	19