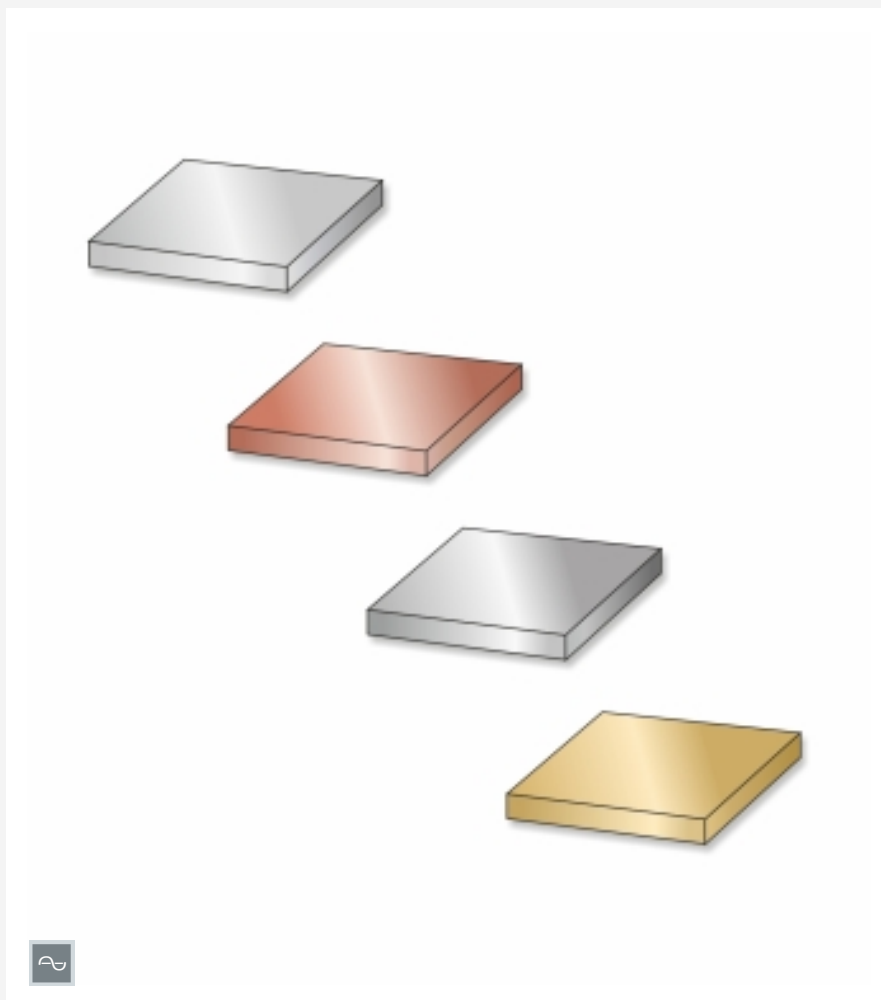


## WP 300.03

### Set of 4 hardness specimens, Al, Cu, St, CuZn



#### Learning objectives/experiments

- Brinell hardness testing on the WP 300 / WP 310 experimental unit

#### Specification

- [1] hardness specimens for Brinell hardness experiments
- [2] 4 specimens made of aluminium, copper, steel, brass
- [3] accessory for WP 300 Materials testing, 20kN and WP 310 Materials testing, 50kN

#### Technical data

- 4 hardness specimens
- LxWxH: 30x30x10mm
- material: Al, Cu, St, CuZn

Weight: approx. 300g

#### Scope of delivery

- 1 set of specimens (4 pieces)

#### Description

- square specimens for Brinell hardness testing
- accessory for the WP 300 / WP 310 experimental units

This set of specimens is available as an accessory for the WP 300 and WP 310 experimental units. The specimens have a square shape.

When used with WP 310, the WP 310.01 experimental setup is also required. This experiment setup consists of a pressure plate for holding the specimens and a mechanism for the hardened steel ball.

In the experiment the specimen is positioned on the pressure plate and a hardened steel ball is pressed into the specimen under defined conditions.

A triaxial stress state develops in the specimen, underneath the impressing test body. Then the surface or depth of the lasting impression is measured optically. The Brinell hardness is calculated from test load and impression surface of the spherical segment.

The WP 300.12 measuring magnifier is available as an accessory for the optical measurement of the imprint surface.

The set contains one aluminium specimen, one copper specimen, one brass specimen and one steel specimen.

## **WP 300.03**

### **Set of 4 hardness specimens, Al, Cu, St, CuZn**

#### Required accessories

WP 300                    Materials testing, 20kN  
or  
WP 310                    Materials testing, 50kN  
with  
WP 310.01                Experimental setup for Brinell hardness test

#### Optional accessories

WP 300.12                Measuring magnifier for Brinell hardness test