

**Charpy  
Impact Test**

## Certified Reference Materials



**Tensile Test**

Institut für Eignungsprüfung



Producer of certified  
reference materials  
on the field of  
materials testing  
(Tensile test: Flat-  
and round test  
specimen; Charpy  
pendulum impact  
test: V –notch  
reference test  
specimens acc. to  
EN ISO 148-3).

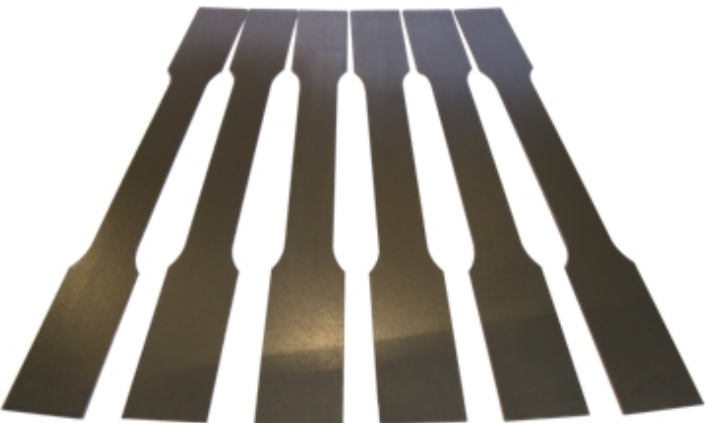
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Please send me further information on the  
following certified reference materials:

Tensile Test

Charpy Pendulum Impact Test

Company

Address

Telephone/ E-mail

Date

Signature

## General information on our certified reference materials (CRM)

IfEP is an accredited producer of certified reference materials for tensile test and Charpy pendulum impact test.

We offer reference materials with highest grade of technical traceability. Each specimen set is delivered together with a certificate, including the measurement uncertainty of the certified parameters and the respective degrees of freedom.

Our Institute follows strictly the requirements of EN ISO/IEC 17025 and ISO Guides 31, 34 and 35.

### Our reference materials:

- come with a certificate of the reference value and its measurement uncertainty.
- are characterised according to ISO compliant models.
- enable a continuous monitoring of your testing equipment by means of quality control charts.
- Are an easy to use tool for the practicable determination of measurement uncertainty in mechanical testing.



## CRM Tensile Test EN ISO 6892-1:2009

### Flat test specimen

Available dimensions and properties:

- $a_0 = 1 - 1,3 \text{ mm}$ ,  $b_0 = 20 \text{ mm}$
- Tensile strength levels: 300 – 500 MPa
- Certified parameters:  $R_{p0,2}$ ,  $R_m$ , A

### Round test specimen

Available dimensions and properties:

- $d_0 = 10 \text{ mm}$ , thread end ISO M16
- Tensile strength levels: 500 – 800 MPa
- Certified parameters:  $R_{p0,2}$ ,  $R_m$ , A, Z

Different specimen set sizes are available: Between 6 and 25 test pieces per set (for a decreased measurement uncertainty).

### Fields of application:

- Analysis of applicability of testing equipment
- Evaluation of trueness and precision of your testing facility
- Control of software settings and parameters

## CRM Charpy Pendulum Impact Test EN ISO 148-2:2008

### Charpy V–notch specimen

Available energy levels:

Energy level	Energy range
Low	15 J – 39 J
Medium	40 J – 99 J
High	100 J – 159 J
Super high	160 J – 200 J+

Each specimen set contains five certified reference test pieces.

### Fields of application:

- Indirect verification of pendulum (2mm hammer tip) acc. to EN ISO 148-2
- Continuous monitoring of performance with quality control charts
- Determination of measurement uncertainty acc. to EN ISO 148-1

