



STS Directory

Accreditation number: STS 0044

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

EMPA
Section 602
Mechanical Engineering/Workshop
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Internet: <http://www.empa.ch>
Initial accreditation: 07.12.1993
Current accreditation: 18.10.2019 to 17.10.2024
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 18.02.2022

Testing laboratory for material testing machines

Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
TENSILE TESTING MACHINES	General test Testing of the force measuring system - Force range 0.01 N to 5 MN - Alignment of machines axis	ISO 7500-1, ASTM E4 SOP 00'402 ASTM E1012
COMPRESSION TESTING MACHINES	General test Testing of the force measuring system - Force range 0.01 N to 30 MN	ISO 7500-1, ASTM E4, SOP 00'403
All		
Additional for building materials testing machines	General test Testing of the baseplates - Force range 0.2 MN to 2 MN	DIN 51302-2 SOP 00'404



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TORSION TESTING MACHINES	General test Testing of the torque measuring system - Torque range 1 Nm to 6000 Nm	SOP 00'405
EXTENSOMETERS	General test Testing of the elongation indicator - Initial length of measuring device 10 mm to 150 mm - Measuring range 0 to 60 mm - Crosshead displacement 0 to 500 mm	DIN EN ISO 9513, ASTM E83 SOP 01'367 SOP 02'652
LOAD APPLICATION SPEED	Displacement-/load-/stressgrowth versus timeunit	SOP 03'210
PENDULUM IMPACT TESTING MACHINES	General test Testing of the energy indicator - Energy range 0.5 J to 600 J	DIN EN ISO 148-2, DIN 51222, SOP 00'407
DEVICES FOR THE DETERMINATION OF THE MELT MASS-FLOW RATE AND THE MELT VOLUME-FLOW RATE	General test Testing of the temperature measuring system	ISO 1133 SOP 04'311
HARDNESS TESTING MACHINES	General test	
Brinell	All hardness ranges	EN ISO 6506-2, ASTM E10, SOP 01'368
Vickers	All hardness ranges	EN ISO 6507-2, ASTM E92, ASTM E384, SOP 01'369
Rockwell	Hardness range A,B,C,D,E,F,G,H,K,N,T	DIN EN ISO 6508-2, ASTM E18, SOP 00'406
Ball indentation method	Hardness range H 49, H 132, H 358, H 961	DIN EN ISO 2039-1, SOP 02'490
Shore	Shore A and shore D	DIN ISO 48-9, SOP 02'484
Knoop	All hardness ranges	DIN EN ISO 4545-2, SOP 03'717



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IRHD Micro-hardness-testing		DIN EN ISO 4545-2, SOP 03'717
Special procedures	According to the presented standards or procedures	SOP 01'521

The testing laboratory maintains a list with detailed information on the activities within the scope of accreditation. It is available upon request at the laboratory.

In case of contradictions in the language versions of the directories, the German version shall apply.

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