

Schedule of Accreditation  
for Testing Laboratory According to ISO/IEC 17025  
Issued to  
Mechanical Testing Laboratory -MTL  
Faculty of Engineering – Cairo University  
Giza Gov, Egypt

Schedule No.: 413004 B Issue No. (2): November 08, 2018 1<sup>st</sup> Accreditation date: November -06, 2014

Revision No. (-):

Valid to: October 31, 2020

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements(%/%)	Standard Specifications / Techniques Used	Optical emission spectrometer / Techniques Used
Low alloy Steel	<p>C 0.0025 – 1.5 Si 0.0015 – 3.5 Mn 0.0005 – 2.5 P 0.001 – 0.12 S 0.001 – 0.1 Cr 0.0015 – 6.0 Ni 0.001 – 6.0 Cu 0.0015 – 1.5 Mo 0.001 – 1.6 Al 0.001 – 2.0 Ti 0.0005 – 0.6 V 0.005 – 1.0 B 0.0003 – 0.015 Sn 0.001 – 0.25 W 0.005 – 1.5 Nb 0.0015-0.8 Co 0.002 – 0.65 Pb 0.0015 – 0.15</p>	ASTM E415-17	Optical emission spectrometer Model: ARL 3460 S.Ns: 4545-AD





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Stainless Steel	C 0.007 - 2.0 Si 0.04 - 4.5 Mn 0.025 - 13.0 P 0.002 - 0.05 S 0.001 - 0.05 Cr 10.0 - 35.0 Ni 3.5 - 40.0 Cu 0.01 - 6.3 Mo 0.01 - 6.8 Al 0.002 - 1.0 Ti 0.002 - 2.2 V 0.01 - 1.0 B 0.0005 - 1.0 Sn 0.003 - 0.12 W 0.02 - 4.5 Nb 0.005 - 3.5 Co 0.02 - 0.6 Pb 0.0015 - 0.004 N 0.03 - 1.0	ASTM E1086-14	



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Metallic Material	Tensile Testing	ASTM E8/E8M-16a Tensile testing machine (10-100 Ton) S.N: 124105000018
	Charpy Impact Test	ISO 148-1:2016 Impact testing machine. S.N:04016
	Vickers Hardness test	ASTM E 92:2017 Universal hardness testing machine Manufacturer: ZWICK/ROELL Model: ZHU250 S.No.: DO720515/2014
	Brinell Hardness test	ASTM E 10:2017 HB 1/30 HB 2.5/62.5 HB 2.5/187.5
	Rockwell Hardness test	ASTM E 18:2017 HRC

