

Schedule of Accreditation
for Testing Laboratory According to ISO/IEC 17025
Issued to
Mechanical & Chemical Testing Laboratories
Railway Rolling Stock Factory (SEMARF)
Ain- Helwan, Helwan, Cairo, Egypt

Schedule No.: 411007 B

Issue No. (2): March 14, 2017

1st Accreditation date: March 14, 2013

Revision No.(2): December 16, 2018

Valid to: October 31, 2020

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements (%)	Standard Specifications / Techniques Used
Carbon and Low-alloy steel	Spectrometric analysis by optical emission technique	ASTM E:415:2017 Optical Emission Spectrometer SN: 0700115
	C 0.08 to 1.1, Si 0.07 to 1.15 Mn 0.10 to 2.0 P 0.02 to 0.085 S 0.01 to 0.055 Cr 0.02 to 2.25 Mo 0.03 to 0.6 Ni 0.02 to 5.0 Al 0.02 to 0.075 Co 0.008 to 0.18 Cu 0.04 to 0.5 Nb 0.02 to 0.085 Ti 0.004 to 0.2 V 0.004 to 0.3 Sn 0.01 to 0.045 As 0.05 to 0.1 B 0.002 to 0.007 Ca 0.001 to 0.003 N ₂ 0.004 to 0.015 Zr 0.02 to 0.05	

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Aluminum and aluminum alloys	Spectrometric analysis by optical emission technique	ASTM E 1251:2011 Optical Emission Spectrometer SN. 0700115
	Si 0.001 to 24.0 Fe 0.001 to 3.5 Cu 0.001 to 20.0 Mn 0.001 to 2.0 Mg 0.001 to 11.0 Zn 0.001 to 10.0 Ni 0.001 to 4.0 Pb 0.002 to 0.7 Sn 0.001 to 7.5 Ti 0.001 to 0.5 P 0.0001 to 0.01 Sb 0.001 to 0.5 V 0.001 to 0.15 Co 0.001 to 2.0 Cr 0.001 to 1.0 Li 0.005 to 3.0 Ag 0.001 to 1.5 Zr 0.001 to 1.0 Bi 0.001 to 0.7 Cd 0.001 to 0.5 Be 0.0001 to 0.5 Sr 0.0001 to 0.07 Ga 0.001 to 0.05 Na 0.0001 to 0.05 B 0.0001 to 0.05 Ba 0.0001 to 0.05 Ca 0.001 to 0.05	

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Mechanical Tension Metallic materials	Tensile Test of metallic Determination of tensile strength Determination of yield strength Determination of % elongation	2 – 10 ton ASTM E8 / E8M -16a ASTM A370-17a Universal Testing Machine SN: 3382K3066

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كورنيش المعادي - برج رياض المعادي ١ - القاهرة - مصر

تليفون: ٥٢٧٥٢٢٢٧ / ٥٢٧٥٢٢٢٤ / ٥٢٧٥٢٢٢٥ / ٥٢٧٥٢٢٢٠ (٢٠٢)

فاكس: ٢٥٢٧٥٢٢٢٤ (٢٠٢)