

# Accreditation Scope

Element Materials Technology ME Limited, NAL 058

Testing Laboratory (ISO/IEC 17025:2005)

Umm Al Naar (Sas Al Nakhl), Abu Dhabi, UAE

Issue Date: 25-12-2018

Expiry Date: 24-12-2021

Issue No.: 05

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
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Mechanical & Physical	Carbon Steel Ribbed Bars for the Reinforcement of Concrete	Bend 8mm to 40mm diameter 0 to 180 degree bend	BS 4449:1988 & ASTM A615/A615M:2018 <sup>e1</sup> /	P
	Carbon Steel Ribbed Bars for the Reinforcement of Concrete	Rebend 8mm to 40mm diameter 0 to 180 degree bend	BS 4449:1997 (W) BS 4449:2005 + A3:2016)	
	Carbon Steel Ribbed Bars for the Reinforcement of Concrete	Tensile Forces up to 1000 kN	BS 4449:1997 (W) BS 4449:2005 + A3:2016)	
	Carbon Steel Ribbed Bars for the Reinforcement of Concrete	Rib Measurement (Projected Rib Area Calculation) up to 40mm diameter	BS 4449:1997 (W) and BS 4449:2005+A3:2016	
Chemical	Plain carbon, low alloy and stainless steels	Elemental analysis C = 0.005 to 3.70% S = 0.002 to 0.200% P = 0.005 to 0.220% Mn = 0.01 to 19.5% Si = 0.01 to 5.5% Cr = 0.01 to 32.0% Ni = 0.01 to 36.0% Mo = 0.01 to 6.20% Fe = 0.01 to 99.8% Nb = 0.01 to 3.5% Al = 0.01 to 1.55% V = 0.01 to 9.5% Ti = 0.005 to 2.05% Cu = 0.01 to 6.0% N = 0.005 to 0.90% Co = 0.01 to 18.0%	In-house procedure EMT-M-OP-CH-AUH-MD101 Issue 9, Oct 2018	P

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Environmental	Stack emissions	Total Particulate Matter - Sampling and monitoring 0-1000 mg/m <sup>3</sup>	In-house method- EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 5:2017	P & S
	Stack emissions	PAHs - Sampling and monitoring 0 - 1 ug/m <sup>3</sup>	Stack emissions PAHs - Sampling and monitoring In-house method- EMT-M-OP-SA-MD003 Issue 3 Oct 2018	
	Stack emissions	Dioxins, Furans and PCB- Sampling and monitoring 0-1 ng/m <sup>3</sup>	In-house method- EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 23:2017	
	Stack emissions	Heavy metals- As, Be, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Mo, Se, V, Zn- Sampling and monitoring 0-5 mg/m <sup>3</sup>	In-house method- EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 29:2017	
	Stack emissions	Hydrogen Chloride- Sampling and monitoring 0-1000 mg/m <sup>3</sup>	In-house method- EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 26A:2017	

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Environmental	Stack emissions	Hydrogen Fluoride- Sampling and monitoring 0-200 mg/m <sup>3</sup>	In-house method- EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 13B: 2017 and US EPA 26A:2017	P & S
		Hydrogen Sulphide- Sampling and monitoring 0-740 mg/m <sup>3</sup>	In-house method-- EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 11:2017	
		Hydrogen cyanide- Sampling and monitoring 0-10 mg/m <sup>3</sup>	In-house method-- EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA OTM 29, March 2011	
		Ammonia- Sampling and monitoring 0-2000 mg/m <sup>3</sup>	In-house method- - EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA CTM 27: 1997	
		Sulphur dioxide (Wet Chemistry)-Sampling and monitoring 0-2000 mg/m <sup>3</sup>	In-house method- - EMT-M-OP-SA-MD003 Issue 3 Oct 2018 based on US EPA Method 6:2017	

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Environmental	Stack emissions	Sulphur dioxide - Sampling and monitoring 0-3000 ppm	In-house method- EMT-M-OP-SA-MD001 Issue 5 Oct 2018 based on US EPA Method 6C:2017	P & S
		Carbon Monoxide- Sampling and monitoring 0-5000 ppm	In-house method- EMT-M-OP-SA-MD001 Issue 5 Oct 2018 based on US EPA Method 10:2017	
		Carbon dioxide- Sampling and monitoring 0-20%	In-house method- EMT-M-OP-SA-MD001 Issue 5 Oct 2018 based on US EPA Method 3A:2017	
		Oxides of Nitrogen (as NO <sub>2</sub> )- Sampling and monitoring 0-2500 ppm	In-house method- EMT-M-OP-SA-MD001 Issue 5 Oct 2018 based on US EPA Method 7E:2017	
		Oxygen - Sampling and monitoring 0-25%	In-house method EMT-M-OP-SA-MD001 Issue 5 Oct 2018 based on US EPA Method 3A:2017	

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Environmental	Stack emissions	VOCs - Sampling and monitoring 0-10,000ppm	In-house method EMT-M-OP-SA-MD002 Issue 5 Oct 2018 based on US EPA Method 25A:2017 using onsite FID instrument	S
		Sulphur Dioxide, Carbon monoxide, Oxides of Nitrogen (as NO <sub>2</sub> ), Oxygen CO - 0 - 10000 ppm - Sampling and monitoring SO <sub>2</sub> - 0 - 5000ppm Nox - 0 - 3000 ppm O <sub>2</sub> - 0 - 25 %	In-house method- EMT-M-OP-SA-MD022 Issue 3 Oct 2018, Gas Research Institute Method GRI-96/008 Revision 7 ,EMC Conditional Test Method (CTM 30):1997	
	Ambient Air Quality/Ambient Environment	Carbon monoxide, Nitric oxide, Oxides of Nitrogen(NO/NO <sub>2</sub> ), Sulphur Dioxide, Ozone - Sampling and monitoring SO <sub>2</sub> - 0 - 200 ppb CO - 0 - 5 ppm NOx - 0 - 2 ppm O <sub>3</sub> - 0 - 200 ppb	In-house method- EMT-M-OP-AA-MD002 Issue 3 Oct 2018, Using AQMesh Analyzer - Sampling and monitoring	S

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Environmental	Ambient Air Quality / Ambient Atmosphere	TSP, PM1, PM2.5, PM10- Sampling and monitoring 0-6000 ug/m <sup>3</sup>	In-house method- EMT-M-OP-AA-MD003 Issue 4 Oct 2018, Using an Osiris Analyzer	S
	Ambient Environment/ Workplace	Noise - Sampling and monitoring	In-house method- EMT-M-OP-NO-MD001 Issue 5 Oct 2018, Using Sound level meter	
<b>END</b>				