



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NESHER ISRAEL CEMENT ENTERPRISES LTD. - THE CENTRAL LABORATORY

P.O.Box 5, B Industrial zone,
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CHEMICAL

Valid To: May 31, 2023

Certificate Number: 7024.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following chemical tests on cement, clinker, concrete, gypsum, raw material, fuels, alternative fuels, waste, additives, liquids, solids, and powders:

<u>Test:</u>	<u>Test Method(s):</u>
<u>Concrete Manufacturing- Chemical Testing:</u>	
Determination of loss on ignition	SI 2 part 2 <i>SI - Standard of Israel</i> (Israel implementation of EN 196-2 section 4.4.1)
Determination of residue insoluble in hydrochloric acid and sodium carbonate	SI 2 part 2 (Israel implementation of EN 196-2 section 4.4.3)
Determination of sulfate	SI 2 part 2 9 (Israel implementation of EN 196-2 section 4.4.2)
Determination of free lime	In house procedure (Based on (1) ASTM 985 section IV free lime rapid methods, and (2) IS 4032-2004 (reaffirmed 2005, amended 2010) <i>IS – Indian standard</i>)
Determination of sulfate	In house procedure (Based on (1) EN 196-2 and (2) ASTM C471 M:2016a)
Determination of Caloric Value of fuels	ASTM D4809
Determination of Moisture content	In house procedure (Based on SI 26 part 5, ASTM D2216, ASTM D2974, BS 812-109 and EN 459-02)

<u>Test:</u>	<u>Test Method(s):</u>
Determination of chloride by potentiometric titration	In house procedure (Based on EN 196-2 section 4.5.16)
Determination of chloride by potentiometric titration for combustive solid materials	ASTM D4208
Determination of chloride by potentiometric titration in solid Waste and Liquid combustive materials.	EPA 5050
Determination of Reactive Silica	SI 2 part 2 (Based on EN 196-2 section 4.4.4)
Determination of Water by Coulometric Karl Fischer Titration	ASTM E203
Determination of the Methylene Blue Value for Fine Aggregate or Mineral Filler Using a Colorimeter	ASTM C1777
<u>Concrete Manufacturing- Spectroscopy:</u>	
Determination of Soluble Chromates	SI 2 part 10 (Israel implementation of EN 196-10)
Determination of Mercury contents by DMA80	EPA 7473 (DMA, Direct Mercury Analyzer)
Determination of Chemical substances (Majors minors)	ASTM D6349-09
Sample preparation by digestion with lithium metaborate fusion	ASTM 4503-08
Determination of Chemical substances (Traces)	EPA 6010C
Determination of Chemical substances (Traces)	EPA 6010 D
Digestive materials for trace testing by microwave	EPA 3051
Digestive materials for trace testing by microwave	EPA 3052
Digestive liquid materials for trace testing	EPA 3010
Spectroscopic sulfur determination	ASTM D1552-16a
Determination of organic halogen content	In-house procedure

<u>Test:</u>	<u>Test Method(s):</u>
<u>Air:</u>	
Determination of particulate and Gas mercury emission from stationary source	SI 5097 part 10.1 (Israel implementation of Code of federal regulation 40 part 61, method 101A)
Determination of Metals Emissions from stationary source	EPA 29: (Compounds As, Co, Cr, Cu, Mn, Ni, Pb, Sb, V)
Determination of NO concentration	EN 14211
Determination of NO ₂ concentration	EN 14211
Determination of NO _x concentration	EN 14211
Determination of SO ₂ concentration	EN 14212
<u>Meters of Particulate Concentration in Air by Aerosol Spectrometer:</u>	
PM-10 suspended particulate matter based on optical techniques	EPA CFR, Title 40 part 58 App. 2013
PM-10 suspended particulate matter based on optical techniques	EN 16450
PM-2.5 suspended particulate matter based on optical techniques	EPA CFR, Title 40 part 58 App. 2013
PM-2.5 suspended particulate matter based on optical techniques	EN 16450
<u>Beta Gauge Particulate Concentration in Air:</u>	
PM-10 Beta gauge particulate monitor system	EPA CFR, Title 40 part 58 App. 2013
PM-10 Beta gauge particulate monitor system	EN 16450
<u>Spectroscopy, IR:</u>	
Total organic carbon	EN 15936
<u>Solid Waste:</u>	
Composite sampling of waste	ASTM D5658
Composite sampling of waste	Hazardous waste sampling and analysis guidelines, Israel environmental protection agency (see below)



Accredited Laboratory

A2LA has accredited

NESHER ISRAEL CEMENT ENTERPRISES LTD. - THE CENTRAL LABORATORY

Ramle, Israel

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 24th day of March 2023.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7024.02
Valid to May 31, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.