MATIL is established at 2012 to provide iron and steel focused;

- Research & Development
- Innovative Solutions
- Technology Development and Consultancy
- Technical Education
- Accredited Laboratory Services

Being commence into operations at 2016, as a Research and Development Center MATIL offers, technical competencies for production of new steel qualities, cost reduction and quality improvement researches via its pilot scale steel production simulation laboratory and accredited physical, mechanical and chemical analysis laboratories.

Alongside technical solutions MATIL also provides technical educations specialized in developing and promoting innovative programs to meet the evolving needs of the steel sector with uniting academia and industry.

With its qualified personnel, pioneering engineering solutions, continuing education programs, internationally valid accredited test and analysis services along with strong and leading-edge laboratory infrastructure, MATIL became a common meeting place and a solution partner for steel industry and also a contact point for international cooperations.
November 2012 Establishment

May 2016 Commence Into Operations

December 2016 Accredited Laboratory TS EN ISO/IEC 17025

February 2017 Authorised Test House

March 2017 Environmental Test Laboratory

April 2017 R&D Center

July 2017 International Inspection Company
RESEARCH & DEVELOPMENT

With our qualified personnel, strong laboratory infrastructure and pilot scale production capability allowing applied iron - steel related researchs and development studies, we are offering collaborations and giving consultancy services for:

- SMEs
- Government Agencies
- Universities
- Research Institutes
- Manufacturing Companies
- Non Governmental Organizations
TECHNICAL EDUCATIONS

As MATIL we are providing continual technical educations within vast variety of topics, from well-respected academicians with highly acclaimed university collaborations and highly experienced experts from industry.

Each education topic and content meticulously chosen to fulfill the needs of the participant, including face to face sessions, Q&As and examples from industrial practices within an applicable academic approach.

Our technical educations specialized in developing and promoting innovative programs for:

- Steel Manufacturers
- Steel Using Companies
- SME’s
- Associations

Besides from the mentioned programs, MATIL also have the ability to bring all steel manufacturers together for technology development companies and gives them chance to introduce their new technologies to the steel sector.

MATIL became a continuing education center under “Steel Academy” title, where a common meeting place for academy and industry collaboration.
LABORATORY POLICY

As MATIL Material Testing and Innovation Laboratories Inc., our policy is to present just in time, error-free and reliable test/analysis services for metallic and nonmetallic materials by demonstrating precise professional and technical practices that fulfills the requirements of related test/analysis methods with our continuously trained qualified personnel.

Test/analysis services are carried out within related national and international standards. In case of any changing in test/analysis methods, necessary validation studies are made in parallel.

For this purpose, a Quality Management System in accordance with TS EN ISO / IEC 17025 was established in our laboratories and the documents stipulated by the standard has been published and put into practice. It is obligatory that all laboratory staff must learn these documents and conduct test/analysis works in accordance with the policies, procedures and principles set forth in these documents.

The goal of our laboratory is with the help of priorly made customer cooperation, prevent complaints, fulfill expectations and attendantly to do all necessary work to increase satisfaction. Impartiality, independency, trustworthiness, confidentiality, reliability and quality are the basic principles of our laboratory.

We hereby declare that as MATIL Material Testing and Innovation Laboratories Inc. executives; with the contribution of all our personnel we will perform and continuously improve the Quality Management System in accordance with TS EN ISO / IEC 17025 standard, customer requirements, provisions and TURKAK guidelines.
LABORATORIES

**MECHANICAL TEST LABORATORY**
- TENSILE TEST (2500 kN) 9
- TENSILE TEST (0.3 - 600 kN) 10
- CHARPY IMPACT TEST 11
- HIGH FREQUENCY FATIGUE TEST 12-13
- LOW FREQUENCY FATIGUE TEST 14
- RIB GEOMETRY TEST 15
- BEND - REBEND TEST 16

**CHEMICAL AND COAL ANALYSIS LABORATORY**
- CHEMICAL ANALYSIS 18
- MOISTURE, ASH, VOLATILE MATTER and LOI ANALYSIS 19
- CARBON-SULPHUR-HYDROGEN ANALYSIS 20
- CALORIFIC VALUE DETERMINATION 21
- COATING ANALYSIS 22

**MICROSTRUCTURE AND MATERIAL ANALYSIS LABORATORY**
- METALLOGRAPHICAL SPECIMEN PREPARATION 24
- OPTICAL MICROSCOPE ANALYSIS 25
- STEREO MICROSCOPE ANALYSIS 26
- SCANNING ELECTRON MICROSCOPE (SEM) ANALYSIS 27
- UNIVERSAL HARDNESS TEST 28
- BRINELL HARDNESS TEST 29
- MICROHARDNESS TEST 30
- JOMINY TEST 31

**PILOT - SCALE STEEL PRODUCTION LABORATORY**
- INDUCTION FURNACE 33
- ANNEALING FURNACE 34
- BILLET & SLAB ROLLING MILLS 35
- THERMOCHEMICAL SIMULATION SOFTWARE
MECHANICAL TEST LABORATORY
TENSILE TEST (2500 kN)

Sample Types
- Rebar
- Profile
- Steel Blade
- Wire
- Flat Product
- Welded Material
- Coil
- Round Bar
- Pipe
- Bulon Pipe

Applications
- Flat Product
- Round Material / Rebar

Test Standards
- EN ISO 6892-1*
- TS EN ISO 15630-1*-2-3
- ASTM E8/E8M*
- ASTM A370*
- ISO 15835-2*
- ASME Section IX -QW150*
- AWS D1.1/D1.1M

Technical Properties
- 2500 kN load capacity
- Precise yield strength, tensile strength, elongation measurements
- 1 to 100 mm flat and 6 to 100 mm round round material testing capability
- Class 0.5 sensitivity
- Full automatic contact type extensometer

Product Standards
- TS 708*
- BS 4449*
- BS 6744*
- BS 4482*
- BS 4483
- ISO 4136*
- ISO 898-1*
- API 5L*
- API 1104*
- ASTM A615/615M
- ASTM A706/706M
- DIN 488
- NEN 6008 / BRL 0501
- NBN A 24 -301
- NF A35 - 80 -1

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
# TENSILE TEST (0.3 - 600 kN)

**Sample Types**
- Rebar
- Profile
- Steel Blade
- Wire
- Flat Product
- Welded Material
- Coil
- Round Bar
- Pipe
- Bulon Pipe
- Bolt & Nut

**Applications**
- Flat Product
- Round Material
- Rebar
- Wire
- Pipe & Tube
- Bolts & Nut
- Welded Material Tensile & Bending

**Technical Properties**
- 600 kN load capacity
- 30 kN loadcell for 0.1 to 10 mm wire and sheet metal tests
- M6 – M8 – M10 – M12 – M14 - M16 bolts (upper diameters with long products only)
- 0 to 100 mm flat and 8 to 65 mm round material testing capability
- 3 Point Bend Test 50/60/74/96/108/120/132/150/160/168/192/200/224 mm radius
- 600 kN compression capacity
- Class 0.5 sensitivity
- Full otomac contact type ekstansometer

**Product Standards**
- TS 708*
- BS 4449*
- BS 6744*
- BS 4482*
- BS 4483
- ISO 4136*
- ISO 898-1*
- API 5L*
- API 1104*
- ASTM A615/615M
- ASTM A706/706M
- DIN 488
- NEN 6008 / BRL 0501
- NBN A 24 -301
- NF A35 - 80 -1

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
# CHARPY IMPACT TEST

## Sample Types
- V-notch
- U-notch

## Applications
- Structural Steel
- Hardening Steel
- Oil Pipe Line
- Special Project

## Technical Properties
- 450 joule capacity
- -80 to +70 °C sample conditioning
- V & U notch tests
- Optical measurement system check for samples
- 2 & 8 mm hit anvil

## Test Standards
- EN ISO 148-1*
- ASTM E23*
- ASTM A370*

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard.
<table>
<thead>
<tr>
<th>Sample Types</th>
<th>Technical Properties</th>
<th>Test Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rebar</td>
<td>500 kN loadcell capacity</td>
<td>EN ISO 15630-1*</td>
</tr>
<tr>
<td>Round Bar (Prepared</td>
<td>Resonation type between 35 to 300 Hz frequency</td>
<td>DIN 50100</td>
</tr>
<tr>
<td>Samples)</td>
<td>working bandwith</td>
<td>ISO 15835-2*</td>
</tr>
<tr>
<td>Bolt</td>
<td>M5, M6, M8, M10, M12, M14, M16, M20, M24 &amp; M30 size bolt</td>
<td>BS 4449*</td>
</tr>
<tr>
<td></td>
<td>testing capability</td>
<td>TS 708*</td>
</tr>
<tr>
<td></td>
<td>Ø8 - 40 mm rebar fatigue testing capability</td>
<td>BRL 0501*</td>
</tr>
<tr>
<td></td>
<td>Class 0,5 sensitivity</td>
<td>EN 10080</td>
</tr>
</tbody>
</table>

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard

**HIGH FREQUENCY FATIGUE TEST (500kN)**
These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard.

Sample Types
- Rebar
- Round Bar (Prepared Samples)

Applications
- Force Controlled Material Testing
- Obtaining S/N Data

Technical Properties
- 100 kN loadcell capacity
- Resonance type between 35 to 300 Hz frequency working bandwidth
- Ø6 - 20 mm rebar fatigue testing capability
- Class 0.5 sensitivity

Test Standards
- EN ISO 15630-1*
- DIN 50100
- ISO 15835-2*
- BS 4449*
- TS 708*
- BRL 0501*
- EN 10080
- DIN 488-2*
- BS 6744
- ISO 3800-1*
LOW FREQUENCY FATIGUE TEST (1200kN)

Sample Types
- Up to Ø60 mm Rebar
- Round Bar
- Hot & Cold Rolled Flat Product

Applications
- Deformation Controlled Rebar Fatigue Test
- Special Designed Tests on Flat Product

Technical Properties
- 1200 kN Load Cell capacity for static tests, 850 kN Load Cell capacity for dynamic tests
- ±9 mm, total 18 mm stroke
- 1-3 Hz frequency up to 10 cycles of one block
- Ø5.5-60 mm rebar gripping
- 1-75 mm flat product gripping
- Full automatic contact type extensometer

Test Standards
- PN-H-93220
- UNE 36065
- SI 739
- EN ISO 15835-2*
- SI 4446

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
Sample Types
• Hot & Cold Deformed Rebar

Applications
• Rebar

Test Standards
• EN ISO 15630 - 1*

Technical Properties
• Ø8-50 mm rebar measurements.
• Longitudinal rib width and height measurement

Product Standards
• TS 708*
• BS 4449*
• ASTM A615/615M
• ASTM A706/706M
• DIN 488
• NEN 6008* /BRL 0501
• NBN A 24 -301
• NF A35 - 80 -1

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
**Sample Types**
- Rebars
- Flat Products
- Round Bars

**Applications**
- Rebars
- Round Materials
- Pipes
- Bulon Pipes

**Technical Properties**
- Bend & Rebend tests for rebar up to 50 mm diameter.
- Mandrel diameter up to 350 mm
- Artificial aging furnace for rebend tests.

**Product Standards**
- TS 708*
- BS 4449*
- BS 6744
- BS 4482
- BS 4483
- ASTM A615/615M
- ASTM A706/706M
- DIN 488
- NEN 6008/BRL 0501
- NBN A 24 -301
- NF A35 - 80 -1

**Test Standards**
- EN ISO 15630 - 1* - 2-3
- ASTM A370
- EN ISO 7438*
- EN ISO 5173*

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
CHEMICAL AND COAL ANALYSIS LABORATORY
Chemical Analysis

Test Sample Properties
- Analysis Service About 8 mm Diameter and 0,8 mm Thickness
- Pin Sample Analysis

Applications in Test Machine
- Low Alloy and Plain Carbon Steel
- Stainless Steel
- Resulfurized Steel
- Chromium Steel

Technical Properties
- Optimal sensitivity, stability, accuracy with ultramultiple phototube technology
- Trace analysis of 33 element (Fe, Al, As, B, Bi, C, Ca, Ce, Co, Cr, Cu, La, Mg, Mn, Mo, Nb, Ni, P, Pb, S, Sb, Se, Si, Sn, Ta, Te, Ti, V, W, Zn, Zr, N, O)
- ppm level C, N and O concentration trace analysis
- <1 ppm sensitivity in B for low alloy steels
- Fast result with short term analysis run

Test Standards
- ASTM E 1806*
- EN ISO 14284*
- ASTM E 415*
- ASTM E 1086*
- ASTM E 1999*
- ASTM E 2209*

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
MOISTURE, ASH, VOLATILE MATTER and LOI ANALYSIS

Test Sample Properties
• 250 µm of Particulate Size of Coke, Coal, Secondary Fuels, Gypsum, Flour, Plastics and Ceramics

Applications
• Measurement of Moisture, Ash, Volatile Matter in Coal and Coke
• LOI in Solid Fuel Residual
• Analysis of Residual Moisture And LOI in Cement
• Analysis of Residual Moisture And LOI in Refractory Bricks
• Analysis of Ash and Moisture Content in Paper
• Analysis of Loss in Mass
• Determination of Ash And Moisture in Flour

Technical Properties
• Up to 5g sample analysis with 0.1 mg resolution and with ultimate technology
• High performance and long-term stability with encapsulated cell
• Fast heating rates total power of 5400W
• Operation up to 1000 ºC from room temperature with 1 ºC temperature increment control
• Measurement up to 19 samples in one analysis cycle
• Automatic placing with separate carousel for crucible lid
• Monitoring integrated balance, heating and weighing with programmable furnace
• Measurement of moisture, ash, volatile matter in one analysis cycle
• Fast result with short analysis time and simple operation principle

Test Standards
• ASTM D7582*
• ASTM D7348
• ISO 589 (Methode B2)*
• ISO 26845

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
Applications in Test Machine
- Coke and Coal
- Oil, Asphalt and Rubber
- Carbon and Sulphur in Ash
- Graphite
- Calcium Carbonate
- Lime
- Cement
- Gypsum
- Plastic

Technical Properties
- Fast, sensitive, precise and reliable element determination
- Analysis in low portion (100-500 mg)
- Operation up to 1550 °C temperature
- Analysis in solid and liquid materials
- Carbon, sulphur and hydrogen determination in organic samples
- 5-100% carbon determination
- 0.005-2% sulphur determination
- 0.01-15% hydrogen determination

Test Standards
- ASTM D 5373*
- ASTM D 4239*
- ASTM D 5016*
- ASTM D 1619
- ASTM D 5291
- ASTM D 1552
- EN ISO 10694
- EN ISO 15178
- TS 12089 EN 13137

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
Applications

- Calorific Analysis in All Coke and Coal Types
- Calorific Analysis of Jet Fuel Such as Kerosene
- Calorific Analysis in Liquid Fuel Such as Diesel, Oil, Biodiesel
- Calorific Analysis of Biological Fuels
- Calorific Analysis in Cereal And Crop
- Calorific Analysis in Cement, Food, Solid Residual And Residual Derived

Technical Properties

- Analysis according to static jackets method
- Analysis up to 40,000 joule heat capacity
- Analysis result within 20 minutes
- 22 °C and 30 °C operation run
- Analysis up to 40 bar pressure

Test Standards

- ISO 1928*
- ASTM D240
- DIN 51900

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
Applications

• Metallic Materials

Test Standards

• ISO 7989:1-2*
• EN 10346*
• EN 10202*

Technical Properties

• Determination of zinc and zinc alloys coating weight on wire and wire products
• Determination of galvanized coating weight on metallic materials
• Determination of electrolytic tin coating weight on metallic materials

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
MICROSTRUCTURE AND MATERIAL ANALYSIS LABORATORY
Technical Properties

- Automatic driven table-feed cutting systems; variable cutting force, pulse cutting mode accurate and motorized positioning of the specimen in X and Y axis
- Z-axis Chop cutting: The specimen is clamped and the cut-off wheel approaches the specimen
- A large window of Lexan and a sealed LED lamp in the cutting chamber allow precise observation of the cutting process at an optimum degree of safety
- The advantage of combining different cutting techniques and methods into the same machine to obtain superior cut surfaces for a broad range of heavy duty cutting applications on metals, plastics, and ceramics

**METKON ECOPRESS 50**

- Automatic digital mounting press with hydraulic pressure at 30 mm specimens
- Adjustable: Pressure, Molding Temperature, Heating and Cooling Time
- Suitable for all current hot mounting materials used in metallographyations on metals, plastics, and ceramics

Technical Properties

- Metallographical Grinding and Polishing Machine, 250 mm Double Wheel system
- Adjustable in grinding speed, time and water cooling
- Automatic Specimen Mover microprocessor controlled, pneumatically adjustable individual force loading system, up to 6 specimens

**METKON FORCIPOL 2V**

Technical Properties

- Metallographical examination preparation for steels and other metallic materials
- Precise cutting of the materials
- Preparation of materials for Scanning Electron Microscope with the conducted mounting

Applications in Test Machine

- Metallographical examination preparation for steels and other metallic materials
- Precise cutting of the materials
- Preparation of materials for Scanning Electron Microscope with the conducted mounting

Test Standards

- ASTM E3*

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
Applications in Test Machine
• Determining the Inclusion Content of Steel
• Determining Average Grain Size
• Phase Analysis
• Decarburization Depth Measurement
• Metallographical Examinations for Failure Analysis

Technical Properties
• Motorised turret and Z axis focus
• Contrasting Modules: Brightfield, Darkfield, Polarization
• Led lighting and 5 MP CCD Camera
• Apochromath optical system: 5x, 10x, 20x, 50x, 100x

Test Standards
• ASTM E45*
• EN ISO 10247*
• DIN 50602*
• ASTM E112*
• EN ISO 643*
• ISO 3887*
• ASTM E381*
• ASTM 1382
• ISO 4967
• EN 13674-1 (Article 9.1.4)*
• ASTM E1077*

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
Applications in Test Machine

• Macro Examinations for Failure Analysis

Technical Properties

• Led-ring lighting
• 10X/23mm ocular
• 0.8x, 1x, 2x, 3x, 4x zoom
• 5Mp CMOS camera
• 200 Lp/mm - resolution 2.5 micron

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
Applications in Test Machine

• Image Analysis of the Metallic Materials and Characterization
• Elemental Composition Analysis of the Specimens (With the Help of The Edx Detector)
• Phase, Microstructure, Inclusion and Failure Analysis of the Metallic Materials

Technical Properties

• Tungsten filament sourced analysis
• Imaging with the Secondary and Back-Scatter detectors
• Advanced chemical analysis with EDX detector
• Working distance of 8,5 mm and 25 mm’ imaging area
• Specimen analysis up to 100 height and 120 mm diameter

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
Applications in Test Machine

• Hardness Test on Iron Based And Non-Iron Based Metallic Materials
• Hardness Test of Heat-Treated Materials

Technical Properties

• Hardness test according to: Rockwell, Brinell and Vickers methods
• Loadcell controlled tests between 3 - 187.5 kg.f
• Turret controlled 2.5X, 5X and 10X objectives
• Computer controlled test load and objective selection

Test Standards

• EN ISO 6506-1 / ASTM E-10
• EN ISO 6507 / ASTM E-92
• EN ISO 9015-1
• EN ISO 6508-1* / ASTM E-18*

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
Applications in Test Machine
• Hardness Test on Iron Based and Non-Iron Based Metallic Materials
• Hardness Test of Cast Iron Materials

Technical Properties
• Loadcell controlled brinell hardness tests between 187.5-3000 kg.f
• Turret controlled objective and indenter system
• Computer controlled test load and precise measurement of the indentation diameter

Test Standards
• EN ISO 6506* / ASTM E-10*

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
Applications in Test Machine
• Hardness Test on the Iron Based and Non-Iron Based Metallic Materials
• Hardness Test of the Heat-Treated Materials

Technical Properties
• Vickers Micro Hardness tests between 10-2000 gr.f
• 10x, 40x and 100x objectives
• 100x100mm stage and X-Y 25x25mm digital micrometer control
• Motorised turret system for the intender and the objectives

Test Standards
• EN ISO 6507-1*, ASTM E384*, ASTM E92

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
<table>
<thead>
<tr>
<th>Applications in Test Machine</th>
<th>Technical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Determining Hardenability of Steel</td>
<td>• Heat treatment up to 1.000ºC</td>
</tr>
<tr>
<td>• Ability to create Rockwell Hardness Graphic from</td>
<td>• Closed loop cooling unit</td>
</tr>
<tr>
<td>Point Measurements</td>
<td>• Jominy hardness test apparatus for the steel materials</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ASTM A255*</td>
</tr>
<tr>
<td>• ISO 642*</td>
</tr>
</tbody>
</table>

* These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard
PILOT SCALE STEEL PRODUCTION LABORATORY
These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard

- Tapping up to 50kg
- Suitable for alloy addition
- Suitable for casting of different shapes
- Billet Casting (20 mm x 20 mm x 300 mm)
- Slab Casting (20 mm x 100 mm 200 mm)

Suitable for new steel qualities, cost reduction and quality improvement researches

Capable of casting ferrous metals including alloy steels, stainless steels, pig iron and non-ferrous metals such as aluminium, copper, brass and bronze
Technical Properties

- Up to 1.300°C controlled heating
- 1°C temperature increasement control
- Programmable temperature and time control
- 50 cm x 50 cm x 80 cm: 187 lt internal volume (Furnace 1)
- 20 cm x 20 cm x 30 cm: 12 lt internal volume (Furnace 2)

These tests will be performed by accreditation according to TS EN ISO/IEC 17025 standard

Two laboratory scale reheating furnaces suitable for advanced annealing researches

Suitable for simultaneous heat treatment

Air cooling, water-quenching and oil-quenching can be done for advanced heat treatment researches
BILLET & SLAB ROLLING MILLS

Technical Properties
- Milling of both long and flat products
- Up to 22mm radius or thickness hot rolling capability
- Capable of cold Rolling till 1mm
- Suitable for milling of steel and other metals
- Software controlled load, compress ratio and milling speed

Seperate software controlled pilot scale billet and slab machines specially designed for MATIL in order to simulate milling process

FACTSAGE THERMOCHEMICAL CALCULATION PROGRAMME

Technical Properties
- Chemical Reaction Equations
- Slag Viscosity Modelling
- Phase Stability Diagrams
- Eh-PH Diagrams
- Complex Equalising Diagrams
- Oxides Phase Diagrams
- Fused Salts Phase Diagrams
- Alloy Phase Diagrams

FactSage is a windows based thermochemical database software that can calculate the conditions of multiphase, multicomponent equilibria, with a wide variety of tabular and graphical output modes, under a large range of constrains.
INTERNATIONAL COLLABORATIONS

ARGENTINA  AZERBAIJAN  EGYPT  FINLAND  GEORGIA  GERMANY

HOLLAND  ITALY  IRAN  KUWAIT  MALAYSIA  NIGERIA

NORTHERN IRELAND  NORWAY  OMAN  POLAND  SAUDI ARABIA

SOUTH AFRICA  SOUTH KOREA  SWEDEN  U.A.E.  UKRAINE
MATIL - Materials Testing and Innovation Laboratories Co.

İstanbul Technical University
Maslak Campus Reşitpaşa Mah. Katar Cad. No: 2/1
Maslak, Sarıyer - İstanbul / TÜRKİYE

+90 212 286 33 80
matil@matil.org

+90 212 286 33 60
www.matil.org