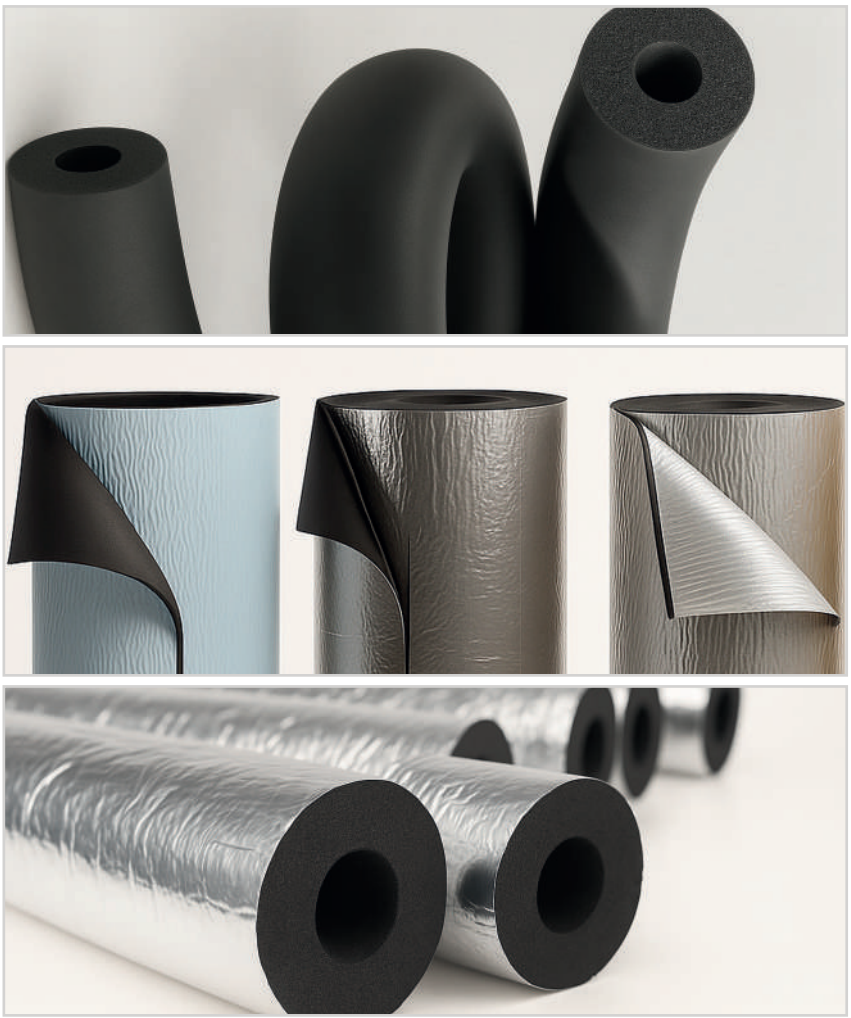
Yalıtımda dinamik® Çözüm

Rubber Foam

Insulation Products Catalog



DYNAFLEX RUBBER®

A Better Future Starts With Dinamik

www.dinamik-izmir.com

High Standard in Energy Efficiency: Prevent Losses, Increase Performance

Ventilation ducts and installation lines are the areas where energy losses are most intense. The way to minimize these losses is through the use of the right material and the appropriate insulation thickness. DYNAFLEX RUBBER Elastomeric Rubber Foam increases efficiency by providing over 80% energy savings, supporting your environmental responsibility.

Superior Insulation with Optimum Density

With its closed-cell structure, DYNAFLEX RUBBER is produced within a density range of 40-75 kg/m^3 and offers ideal solutions for air conditioning and cooling systems with its high water vapor diffusion resistance. The most efficient insulation result is achieved at the point where heat transfer paths are balanced. With a cell structure of 100-120 cells/cm^2 and the right density, Dynaflex offers one of the best thermal insulation performances in the industry.

Healthy Air, Safe Environment

The quality of insulation products used in healthcare, educational, and commercial buildings directly affects indoor air quality. Low-quality material leads to performance loss over time and consequently to a decline in air quality. Condensation caused by density differences and surface temperatures can result in unwanted formations such as mold and mildew. Dynaflex eliminates these risks.

Safe and Efficient Insulation with DYNAFLEX RUBBER

Dynaflex Rubber products offer:

- Correct density and cell structure
- High water vapor diffusion resistance
- Balanced thermal conductivity
- Healthy indoor air quality

Reliable solution in energy efficiency: DYNAFLEX RUBBER.

Elastomeric Rubber Foam Pipe Types

Uncoated / Bare Pipe:

Dynaflex-Rubber elastomeric rubber foam pipes offer high-performance solutions for all mechanical installation applications requiring thermal insulation and energy efficiency. Thanks to their closed-cell structure, they provide superior insulation with a low thermal conductivity coefficient (λ ≤ 0.035 W/mK); by preventing condensation, they both increase system efficiency and extend the service life of the equipment.

Aluminum Foil Coated Pipes:

Dynaflex Rubber – AL is a specially developed solution for pipeline systems exposed to outdoor conditions. Thanks to the 65-micron-thick aluminum foil laminated on its surface, it provides high UV resistance, offers physical protection against impacts, and ensures long-term durability. The foil coating also increases water vapor diffusion resistance (μ > 150,000), almost completely preventing moisture transfer. In this way, insulation performance is preserved for years. With its aesthetic appearance, it offers both functional and visual advantages.

Elastomeric Rubber Foam Pipe Dimensions and Box Lengths

Copper Pipe	Steel Pipe	Nominal Size	Pipe Wall Thicknesses					
			6 MM	9 MM	13 MM	19 MM	25 MM	32 MM
İnch	İnch	mm	m/box	m/box	m/box	m/box	m/box	m/box
1/4″	1/4″	6	600	420	224	---	---	---
5/6″	5/6″	8	540	326	214	---	---	---
3/8″	1/8″	10	480	306	182	104	---	---
1/2″		12	360	268	168	100	---	---
5/8″		15	286	208	152	80	---	---
3/4″	3/8″	18	250	184	132	72	56	34
7/8″	1/2″	22	210	168	104	66	50	32
1″	----	25	176	132	100	60	52	28
11/8″	3/4″	28	150	132	76	58	40	24
13/8″	1	35	120	96	68	48	26	22
15/8″	11/4″	42	140	90	54	40	22	18
	11/2″	48	---	80	46	30	20	18
21/4″	---	54	---	80	44	32	20	16
23/8″	2″	60	---	54	44	28	18	14
21/2″	---	64	---	54	38	26	18	14
3″	21/2″	76	---	50	40	24	18	14
31/8″	---	80	---	50	34	24	18	14
39/16″	3″	89	---	48	36	22	14	12
4″	---	102	---	32	28	18	14	12
41/4″	---	108	---	32	28	18	14	12
41/2″	4″	114	---	32	24	18	14	8

Sheet Types:

Uncoated / Bare Sheet:

With its closed-cell elastomeric structure, Dynaflex Rubber is also produced in flat sheet form in various thicknesses. Thanks to its high flexibility and mechanical strength, it offers an ideal solution for the insulation of large-diameter pipes, air ducts, tanks, and wide-surfaced industrial equipment. Easily cut and shaped during application, the sheets speed up the installation process while minimizing energy losses with their high thermal insulation performance. Their closed-cell structure prevents condensation, contributing to the protection of the system.

DIMENSIONS

Thickness mm	m^2/Roll	Size (Roll/m)
3	72	1,2x60
6	36	1,2x30
9	24	1,2x20
13	16,8	1,2x14
19	12	1,2x10
25	9,6	1,2x8
32	7,2	1,2x6
40	4,8	1,2x4
50	4,8	1,2x4

Coated Sheets:

Dynaflex Rubber coated sheets are produced with aluminum foil, PVC-reinforced coating, and other special surface options to meet various application requirements. These coatings not only provide an aesthetic appearance but also enhance the mechanical strength of the sheets, protect them against external factors, and extend their service life.

Designed specifically for each application area, these products can be used safely in HVAC systems, industrial facilities, and special insulation projects thanks to their high thermal insulation performance and superior moisture resistance.

Product Types:

DYNAFLEX-RUBBER SA
DYNAFLEX-RUBBER AL
DYNAFLEX-RUBBER AL-PLUS
DYNAFLEX-CET AL
DYNAFLEX-RUBBER PVC/AL CLAD

DynaFlex Rubber PVC + Aluminum Coated Sheets and Pipes; Durable, High-Performance, and Aesthetic Solution.

With the PVC + aluminum foil coating integrated onto its elastomeric rubber foam surface, DynaFlex Rubber offers maximum insulation power for heating, cooling, and air conditioning installations, from ducts, pipes, and equipment to fittings.

Superior Performance Features

Fire Safety: With TS EN 13501-1 Class B performance, it does not spread flames; its high ignition resistance keeps safety at the highest level.

Chemical and Moisture Resistance: Provides long-term protection against common chemicals such as acids, salts, and gasoline, as well as against water and water vapor.

UV Resistance: With its protective structure against the harmful effects of sunlight, it can be safely used outdoors.

Flexible Production Options: Available in roll or sheet form for air-conditioning ducts, in various thicknesses, and with a self-adhesive surface option.

Lightweight and Practical: Twice as light as aluminum sheet and five times lighter than galvanized sheet; does not add extra load during installation.

Hygiene and Easy Cleaning: Its smooth surface does not retain dirt and can be easily cleaned.

High Impact Resistance: Its elastic structure allows it to return to its original shape after crushing or impact.

Economic Solution: Provides up to 50% savings in time and labor compared to sheet metal-clad insulation.

Superior Vapor Barrier: When properly applied, raises the water vapor diffusion resistance to $\mu \infty$.

Maintains its initial performance for years.

Offers the advantage of quick and effortless installation with a utility knife, adhesive, and additional tape.

Provides an elegant appearance even in open areas with its modern and smooth surface.

Types of Tapes Used in Application

Our range of industrial tapes, with high adhesive strength, long-lasting performance, and excellent surface conformity, can be safely used in many sectors such as construction, thermal insulation, white goods, automotive, metal, plastic, medical, cardboard, textile, and sponge lamination.

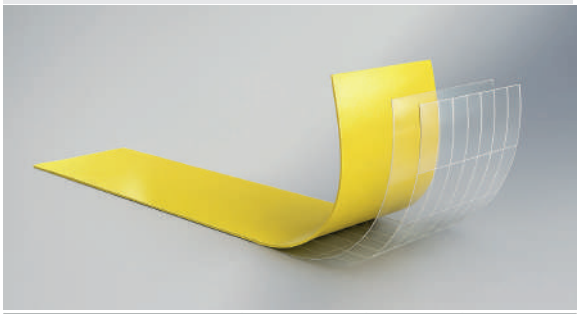
Mesh Reinforced Transfer Tape PP Liner - D 57

(Can be produced without a carrier upon request)

	Method	Unit	Target
Carrier Weight	ISO 536	g/m²	5 ± 1
Adhesive Peel Adhesion 180°	AFERA 5001	N/25mm	Min. 13
Shear	AFERA 5012	S	Min. 00:30
Min. Application Temperature		°C	0
Service Temperature		°C	-15 / +80
Liner			
Weight	ISO 536	g/m²	60 ± 3
Thickness	ISO 534	µm	55 ± 3
Total Thickness (excluding liner)	ISO 534	µm	45 ± 3

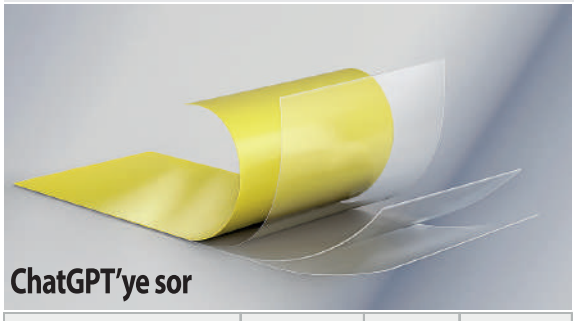
Mesh Reinforced Transfer Tape Havana Paper - D 42

(Can be produced without a carrier upon request)



	Method	Unit	Target
Carrier Weight	ISO 536	g/m²	5 ± 1
Adhesive Peel Adhesion 180°	AFERA 5001	N/25mm	Min. 22
Shear	AFERA 5012	S	Min.2
Min. Application Temperature		°C	0
Servis Sıcaklığı		°C	-10 / +120
Liner			
Weight	ISO 536	g/m²	80 ± 3
Thickness	ISO 534	µm	65 ± 3
Total Thickness (excluding liner)	ISO 534	µm	65 ± 3

Double-Sided Tissue Tape - D 54



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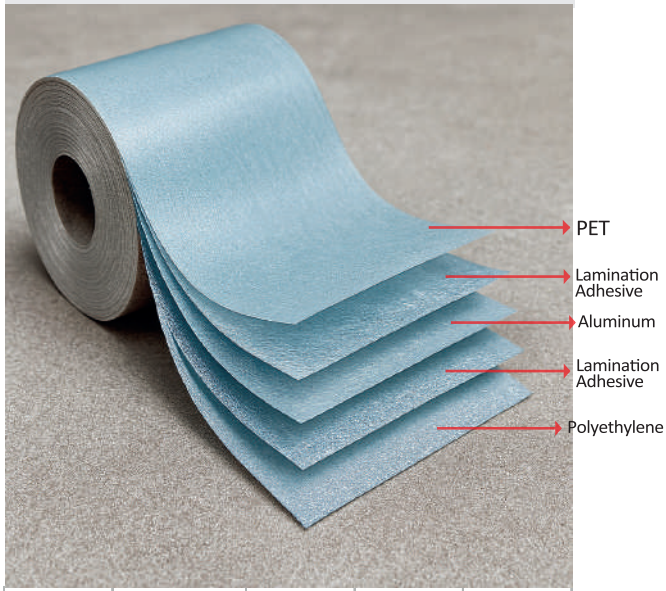
	Method	Unit	Target
Carrier Weight	ISO 536	g/m²	12 ± 1
Thickness	ISO 534	µm	23 ± 2
Adhesive Peel Adhesion 180°	AFERA 5001	N/25mm	Min. 24
Shear	AFERA 5012	h	Min.10
Min. Application Temperature		°C	0
Service Temperature		°C	-15 / +80
Liner			
Weight	ISO 536	g/m²	80 ± 4
Thickness	ISO 534	µm	65 ± 4
Total Thickness (excluding liner)	ISO 534	µm	105 ± 6

Aluminum Foil Tape Types

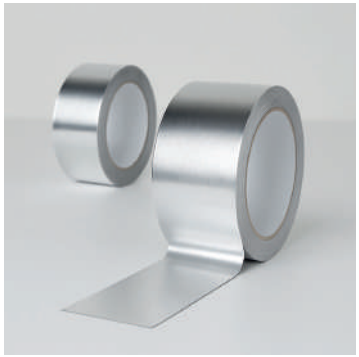


PE	Aluminum	PET	Thickness	Tolerance
20	7	12	45	± 10 %
25	7	12	50	
30	7	12	55	

Rubber Tape Types

Uncoated / Bare Rubber Tapes

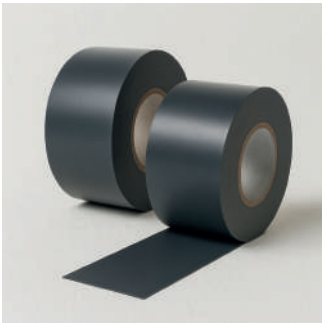
Special tapes made from the same material are used to seal joints or gaps that occur during the application of rubber foam insulation products. Rubber tapes, typically produced in standard thicknesses of 3 mm and 6 mm, stand out with their high adhesive strength and long-lasting performance. In terms of adhesive properties, these tapes are available in plain and mesh-reinforced options, can be produced in different sizes, and offer customized solutions for every need. For detailed information and special size requests, please contact us.



Aluminum Tapes

Aluminum foil tapes, used to seal joints and gaps that occur during the application of aluminum foil-coated rubber pipes and sheets, are produced in standard widths of 5 cm, 7.5 cm, and 10 cm. They are available in plain and mesh-reinforced options in terms of adhesive properties.

PVC Tapes



PVC tapes, used in many different areas, have varying properties depending on the application requirements. In particular, black PVC tapes are preferred for sealing joints and gaps that occur during the application of uncoated rubber insulation products.

Industrial Coating Adhesive

It is used for bonding installation insulation products such as rubber foam and polyethylene, fixing acoustic panels and pipes for sound insulation, bonding products such as sponge, fabric, and felt, bonding wood and decorative laminates, rubber, leather, cork, and similar products, and applying coatings to hard PVC, edges, and curved surfaces.

TAPE SIZES AND FEATURES

- Rubber Tape 3 x 50 x 15,000 mm
- Rubber Tape 3 x 75 x 15,000 mm
- Rubber Tape 3 x 100 x 15,000 mm

- Reinforced Aluminum Foil Tape 3 x 50 x 25,000 mm
- Reinforced Aluminum Foil Tape 3 x 75 x 25,000 mm
- Reinforced Aluminum Foil Tape 3 x 100 x 25,000 mm

- Plain Aluminum Foil Tape 3 x 50 x 25,000 mm
- Plain Aluminum Foil Tape 3 x 25 x 25,000 mm
- Plain Aluminum Foil Tape 3 x 100 x 25,000 mm

- PVC Insulation Tape - Gray/Black Tape 3 x 50 x 25,000

DYNAFLEX RUBBER Foam Technical Specifications Data Sheet

Operating Temperature

For Pipes: -20°C to +105°C

For Sheets and Rolls: -20°C to +110°C

Density

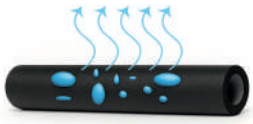
Dynaflex rubber foam insulation products, with a closed-cell structure of 100–200 cells/cm^3 and optimal density, offer the most efficient and suitable insulation solutions.

Density: (40–200) kg/m^3

Thermal Conductivity Coefficient (λ)

Thanks to the stagnant air trapped within the closed cells and the low thermal conductivity of the elastomeric material, Dynaflex rubber foam insulation products significantly reduce heat transfer.

Sheet	Pipe
at -10°C 0,034 W/(m·K)	at -10°C 0,034 W/(m·K)
at 0°C 0,036 W/(m·K)	at 0°C 0,036 W/(m·K)
at 20°C 0,037 W/(m·K)	at 25°C 0,042 W/(m·K)
at 40°C 0,041 W/(m·K)	at 40°C 0,043 W/(m·K)
at 60°C 0,043 W/(m·K)	at 60°C 0,044 W/(m·K)



Water Vapour Diffusion Coefficient

The material and internal structure of Dynaflex rubber foam insulation products offer high resistance to water vapour diffusion.

(μ) ≥ 7000

Fire

Dynaflex does not propagate flames, does not drip burning particles, and does not spread fire. It provides safe insulation for all buildings.

Sheet: B - s3 d0, Pipe: BL - s2 d0 (TS EN 13501-1)

Tests and inspections carried out in the laboratories of the Turkish Standards Institute, in accordance with Turkish Standard TS EN ISO 11925-2, have yielded positive results.

Flexibility–Elasticity

The superior flexibility of Dynaflex rubber foam insulation products ensures efficient insulation, as well as easy and quick installation.

Tensile Strength: 0.32 MPa

Elongation at Break: 203%

Tear Resistance: 1.59 kN/m

Sound Insulation: Above 32 dB

Outdoor Durability: Good

Color Code: Black : Natural

Elastomeric Rubber Foam Logistics Data

Pipe Types

	40 HQ/HC Container 75 m³ - 80 m³		Truck 80 m³- 90 m³		Lorry 45 m³ - 55 m³	
Roll Size	100 cm	120 cm	100 cm	120 cm	100 cm	120 cm
Loadable Quantity	300 Roll	250 Roll	310 Roll	280 Roll	160 Roll	150 Roll
Product Net Weight	2500 - 3000 Kg		3000 - 4000 Kg		1300 - 1700 Kg	

Sheet Types

	40 HQ/HC Container 75 m³ - 80 m³	Truck 80 m³- 90 m³	Lorry 45 m³ - 55 m³
Loadable Quantity	244 Box	300 Box	150 Box
Product Net Weight	2500 - 3000 Kg	3000 - 4000 Kg	1300 - 1700 Kg

About Us...

As Dinamik Isı, we have been serving as a solution partner for 35 years in the construction and building sectors, with our roles evolving from reseller and distributor to importer, representative, and eventually manufacturer.

We began our operations in 1991 with mechanical installation applications and, in 1993, focused our expertise on the insulation sector.

In 1997, we established "Insulation Advisory Centers" to guide investors.

Between 1993 and 2003, we marketed and partially produced insulation accessories such as insulation hanger pins, plastic dowels, and cold room nails.

In 2003, we decided to invest in industry and, in 2004, started the production of CLIMAFLEX polyethylene insulation materials and DYNAJACKET valve jackets.

That same year, we began importing Elastomeric Rubber Foam insulation products and entered the HVAC sector.

In 2005, we expanded our imported product portfolio to include UV-resistant rubber foam and rockwool insulation materials. That year, we also started exporting our PE products under our DYNAFLEX brand.

In 2006, we commissioned our second production line for Climaflex products, doubling our production capacity. Simultaneously, we launched specially designed polyethylene profiles for the packaging sector under the DYNAPROFIL brand.

In 2007, we built a new factory warehouse with a closed area of 2,600 m^2. In the same year, we introduced non-flammable acoustic foam products under the DYNAAKUSTIK brand and began producing tapes for the HVAC sector under the DYNATAPE brand.

In 2008, we began selling Elastomeric Rubber Foam products under our DYNAFLEX RUBBER brand. We expanded our product range for installation insulation and developed engineering solutions tailored to various comfort conditions: DYNAFLEX AL, DYNAFLEX PVC AL-CLAD, and DYNAFLEX AL-PLUS.

In 2009, we started investing in polystyrene foam production for floor and wall insulation. In 2010, we launched these products under the DYNAFOAM brand.

That same year, we commissioned a new 2,500 m^2 production facility to manufacture industrial-specific technical foams and gaskets for sectors such as automotive, electronics, white goods, and small household appliances. Our total indoor area reached 9,000 m^2.

In 2010, we began investing in an XPS production facility with 10,000 m^2 open area and 5,000 m^2 closed area. In June 2011, we started production under the DYNAFOAM BOARD brand and launched our full XPS product range.

In 2012, we expanded our production line with investments in Die Cut, Slitting, and Traveling Head Press equipment. We continued designing packaging and technical foam products tailored to specific industries.

Between 2014 and 2015, we increased our PE production capacity annually and became the only company in Turkey capable of producing polyethylene sheets up to 25 mm thickness in a single layer.

Following our ISO 9001 and ISO 14001 certifications we transitioned to an Integrated Management System with OHSAS 18001.

In 2015, we increased the capacity of our XPS production line by 20%, reaching 130,000 m^3.
In 2016, with our investment in the PE line, we began producing high-density flooring backer rods—previously imported—under our DynaProfil EDGE brand.
In 2017, we commissioned our second XPS line, raising our annual production capacity to 250,000 m^3.
That same year, we developed XPS products tailored to different needs:
DYNAFOAM FRIGO (refrigerated truck insulation), DYNAFOAM BRICK (insulation under decorative bricks), DYNAFOAM X-TILE (insulation under tiles), DYNAFOAM PANEL (core filling for sandwich panels)
In 2018, we began producing cross-linked polyethylene (XPE) foam sheets at our new facility with 7,000 m^2 closed area. By 2019, we had transitioned to regular production.
Our DYNAFOAM XPE products, which provide impact and sound insulation, offer solutions to the automotive, white goods, and many other industries. They are also used in areas such as yoga mats, swimming aids, and sealing applications.
In 2020, we achieved our goal of becoming a publicly traded company and began trading on Borsa Istanbul under the ticker symbol DNISI on September 3, 2020.
In 2021, we launched our new 20,000 m^2 Elastomeric Rubber Foam Production Facility investment in the Tire Organized Industrial Zone. In May 2022, we commenced mass production, reaching a total production area of 55,000 m^2.
In 2022, we began installing a rooftop Solar Power Plant (SPP) on this facility.
By 2023, we expanded the rooftop SPP projects to cover all our facilities. Our total installed capacity reached 4,513 kWp, and today we produce all our electricity in-house.
As Dinamik Isı A.Ş., with over 4,000 product types, modern facilities, a qualified team, and a strong belief in production, we continue to grow, manufacture for our country, and serve as your solution partner.

Dinamik Isı A.Ş. Production Complex

With 5 production plants and 1 central warehouse, we manufacture insulation and packaging solutions over a total area of 55,000 square meters. In our Polyethylene Foam (PE), Extruded Polystyrene Foam (XPS), Cross-Linked Polyethylene Foam (XPE), and Elastomeric Rubber Foam production facilities, as well as our Converting Plant, we offer customized industrial solutions with a product range of over 4,000 items.

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A Better Future Starts with Dinamik

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