

HIGH ENERGY SAVING WITH EXCELLENT INSULATION



KIMcool® - KIMrigid® REFRIGERATOR SYSTEMS

With the increased environmental awareness and importance of energy consumption around the world, energy saving products stand out in the white appliance industry, like many more industries. These products provide less energy consumption and long-term cost-efficiency without affecting the level of service and comfort. The demand for higher energy saving white appliances has increased considerably in the recent years.

Refrigerators, as electrical home appliances working continuously, have been proven to consume a higher rate of energy than other white goods. For this reason, the high energy-efficient refrigerators are critical for energy saving and cost-efficiency.

One of the most effective ways to reduce energy consumption in the refrigerator is to improve thermal insulation. When an insulation material with higher thermal resistance is used, the inside temperature reaches the set temperature in a shorter time and the amount of power drawn by the compressor from the circuit is reduced. Thus, a refrigerator insulated with a low thermal conductivity material maintains the set temperature more efficiently, leading to less energy consumption.

Rigid polyurethane foams maintain the inside temperature of the refrigerator, and thus reduce the consumed energy and provide high efficiency; thanks to their insulation capability due to their low thermal conductivity. Rigid foams also increase the storage volume by allowing great reduction in the wall thickness of the refrigeration equipment.

Kimpur has developed **KIMcool®** and **KIMrigid®** Refrigerator Systems that comply with environmental and energy standards, and help foods remain unspoiled for a long time and extend their shelf life, with their excellent insulation properties.

AREAS OF USAGE

- Domestic refrigerators and freezers
- Commercial refrigeration equipment



ADVANTAGES

- Energy saving with excellent thermal insulation
- Low demolding times with fast curing properties
- High production efficiency
- Excellent dimensional stability
- Excellent foam surface texture
- High mechanical properties

KIMcool[®] REFRIGERATOR SYSTEMS

Three-component rigid polyurethane systems compatible with cP70 or cP95.

KIMcool [®] Systems	Mixing Ratio (%)	Free Rise Density (kg/m ³)	Cream Time (s)	Gel Time (s)	Rise Time (s)	Certificate
KIMcool RD 052	147	28	9	53	88	REACH
KIMcool RD 053	147	30	15	82	135	REACH
KIMcool RD 054	147	28	10	64	100	REACH
KIMcool RD 061	152	28	10	61	90	-
 KIMcool RD 064H	106	28	10	65	100	-

Up to %10 Energy Savings *(It varies depending on the refrigerator's capacity and insulation thickness.)*

Eco-Friendly Blowing Agents

KIMrigid[®] REFRIGERATOR SYSTEMS

Two-component rigid polyurethane systems containing various blowing agents.

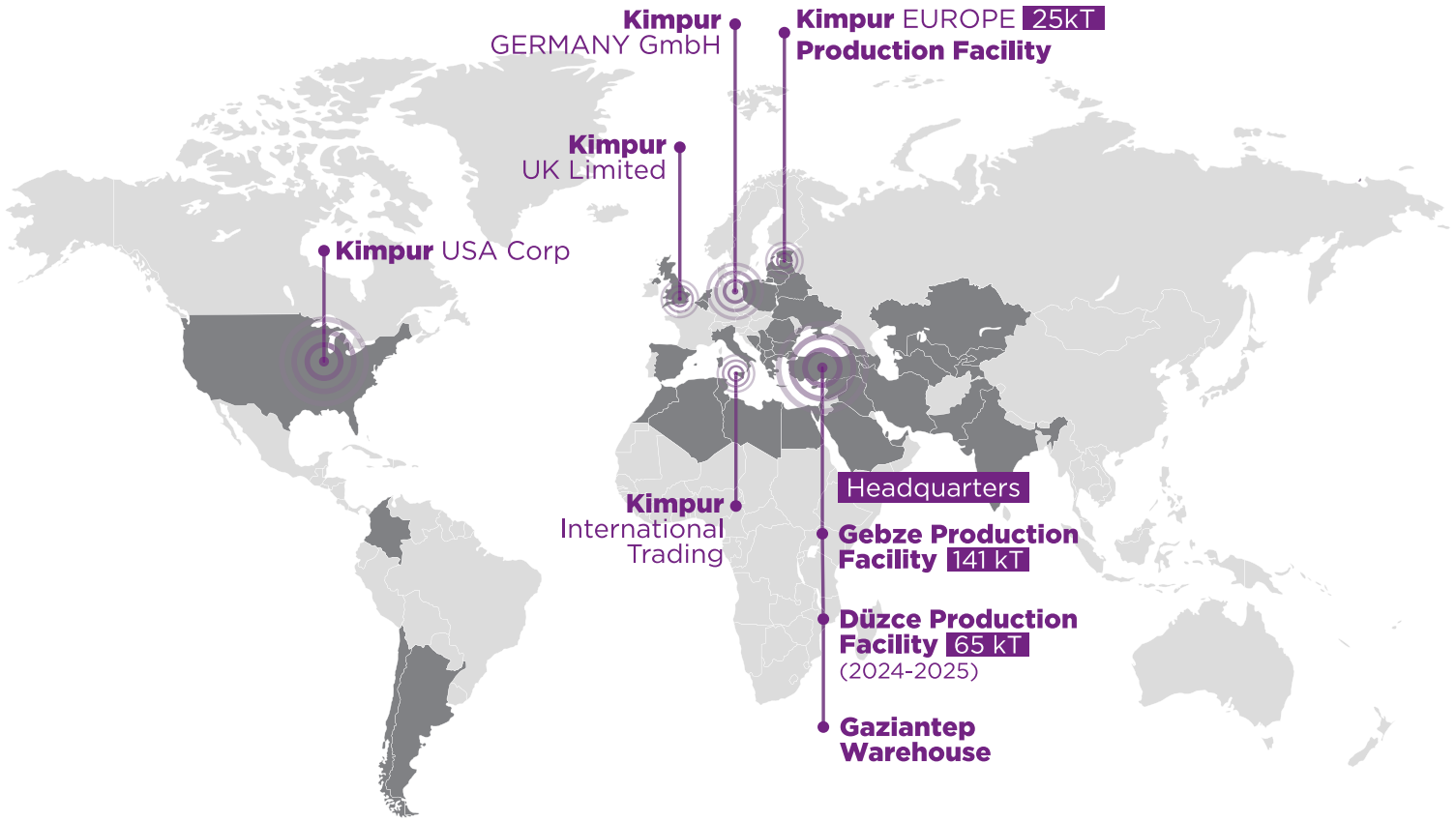
KIMrigid RD	Mixing Ratio (%)	Free Rise Density (kg/m ³)	Cream Time (s)	Gel Time (s)	Rise Time (s)
KIMrigid RD 057	152	32	27	92	150
KIMrigid RD 091	150	28	11	80	122
KIMrigid RD 075	120	28	23	150	220
KIMrigid RD 110	140	31	16	86	150

You can contact our sales office for further detailed information about the products, TDS and MSDS documents.

TÜRKİYE'S LARGEST POLYURETHANE SYSTEM HOUSE

Kimpur is the polyurethane system house with the largest capacity in the region, with a production capacity exceeding 200,000 tons. It leads the sector by exporting to more than 50 countries on 5 continents. Polyurethane systems produced; It is used in different sectors such as shoes, automotive, furniture, heating and cooling, insulation-construction and defense industry.

GLOBAL ACTIVITIES



United Nations
Global Compact



Kimpur Corporate Promotional Film
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LEGAL INFORMATION

At Kimpur, we strive to provide you with the highest quality polyurethane systems, backed by our expertise and dedication to innovation. The information provided in this brochure is a reflection of our expertise and knowledge. However, we highly recommend for users to conduct their own thorough assessments and tests to ensure the suitability and optimal performance of our products for their intended applications. While we strive to provide accurate and reliable information, Kimpur does not assume any liability or offer any warranty, whether expressed or implied, regarding the properties, performance, or fitness for a particular purpose of our products. Descriptions, specifications, and other details provided herein are subject to change without prior notice and should not be considered as binding contractual guarantees. As the recipient of our products, our customers assume full responsibility for compliance with all applicable laws, regulations, and intellectual property rights. We highly recommend obtaining comprehensive information on product toxicity, adhering to proper handling procedures, and ensuring compliance with safety and environmental standards. At Kimpur, we value our partnership with you and strive to provide exceptional support. However, it is important to emphasize that the application, use, and processing of our products are ultimately the sole responsibility of the user. Please note that the safety data provided in this brochure is for informational purposes only and does not constitute a legally binding Material Safety Data Sheet (MSDS). To obtain the relevant MSDS, kindly request it from your supplier or contact us directly at uncommonsolutions@kimpur.com. Our team is ready to assist you with any inquiries or specific safety information you may need.

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