



**kuzeyboru**

**ZEROLEAK**

THE NEW STANDARD OF SEALING



## The New Standard of Sealing in Couplings

**Zeroleak** is a next-generation sealing solution developed for infrastructure projects. Thanks to its full-surface EPDM coating and high-strength composite body structure, it minimizes flow losses at pipe joints and ensures long-lasting performance.



# Design and Structural Features



## Dual / Triple Seal Profile

Provides high adaptability to different diameters and ovality tolerances, ensuring complete sealing.



## Filament Winding Body Structure

Advanced fiber winding technology that increases circumferential and axial strength.



## Full-Surface EPDM Inner Lining

Provides full contact with the pipe surface, elevating sealing performance to the highest level.



## Pressure-Evenly Distributing Design

Distributes the loads in the joint area in a balanced manner.



## Lightweight Composite Material

Offers easy installation and low transportation costs.



## Continuous Fiber Winding

Preserves structural integrity and provides high pressure resistance.



## Optimized Load Transfer

Enhances stability at the pipe-coupling joint.



## Vibration and Ground Movement Damping

Absorbs dynamic effects under field conditions.



## Thermal Expansion Compensation

Reduces stresses caused by temperature variations.



## Ovality Tolerance

Adapts to roundness deviations that may occur on site.



## Full Contact Geometry

Provides maximum contact area on sealing surfaces.

# The Zeroleak Difference

**Zeroleak** adapts even to oval and out-of-tolerance pipes thanks to its advanced dual/triple seal structure.

Its special seal geometry provides maximum sealing security at the joint area.

Its impact-absorbing structure that damps vibrations and ground movements, together with a body design that has passed pressure tests, ensures long-lasting and reliable field performance. Performance is guaranteed through quality control processes at every stage of production.





# Advantages



Maximum Sealing  
Performance



Resistance to Chemicals and  
Corrosion



Reliable Performance Across  
Different Diameters and Pressures



Low Maintenance Cost



High Flexibility



Easy and Fast Installation





# The Role of the Coupling in GRP Lines

In GRP pipe systems, the coupling is a fundamental component for the safe operation of the line.

Choosing the right coupling:

- Reduces pressure losses
- Lowers maintenance requirements
- Extends the service life of the line

**Zeroleak has been specially developed for this critical connection point.**

## Kuzeyboru GRP Pipes

With a wide product range from **DN 300 mm to DN 4000 mm**, lightweight, durable, corrosion-resistant, and fast-to-install GRP pipe solutions are offered.

With project-based engineering support, customized solutions are developed for each infrastructure application.



# Production Facility

At the modern production facility in Malatya, high-strength GRP products are manufactured using advanced filament winding technology. Through certified quality control processes carried out by an expert team, each product is delivered to the field ready for use.

## Testing Process

Each **Zeroleak** coupling undergoes high-pressure water testing after production.

These tests guarantee that the product will deliver maximum performance in the field.





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