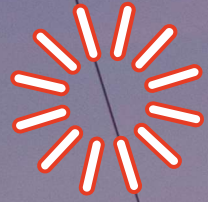


WARNING SPHERES

PRODUCT CATALOGUE - 2025



ALAS
ELEKTRİK AYDINLATMA
ARGE SAN. TİC. LTD. ŞTİ.

ABOUT US

Alas Elektrik Aydınlatma Ar-Ge San. Tic. Ltd. Şti. was founded to develop international-level technological products in the field of modern lighting technologies. Thanks to the academic knowledge base of Yıldız Technical University, industry experience, and qualified human resources, Alas Elektrik can produce a wide range of technological solutions.

Alas Elektrik serves various sectors including aircraft warning systems, modern lighting systems, renewable energy, energy efficiency, and LED lighting. With its capabilities in design, hardware, and software development, the company aims not only to develop competitive products for its customers but also to produce high value-added technological products.



PRODUCT LIST



COMPOSITE MARKER BALL



LIGHTED MARKER BALL



SPECIAL COMPOSITE
MARKER BALL

COMPOSITE MARKER BALL

Designed
in compliance
with TEİAŞ specifications
and standards,
ensuring high-voltage line
visibility.

MODEL: WS8R1

TECHNICAL SPECIFICATIONS

Diameter: 600 mm $\pm$ 10 mm

Color: RAL2002

Operating Temperature: -30 to +55 °c

Body Material: Glass fiber-reinforced
composite

Tensile Strength: ≥ 128 MPa

Bending Strength: ≥ 230 MPa

Reflector: ASTM D4956-09 Type 11

Clamp: Corrosion-resistant Aluminum
(DIN G-ALSi10Mg)

Wire Diameter: 70 mm², 96 mm²

Suspension Wire Protector: Neoprene Pad

Bolts and Washers: Hot-dip Galvanized Steel
(EN ISO 10684)



SPECIAL COMPOSITE MARKER BALL

Developed with a special painting method to enhance high-voltage line visibility, in compliance with TEİAŞ specifications and standards.

TECHNICAL SPECIFICATIONS

Special Pigmented Paint
(Visible up to 9 hours in darkness)

Diameter: 600 mm $\pm$ 10 mm

Color: RAL2002

Operating Temperature: -30 to +55 °c

Body Material: Glass fiber-reinforced composite

Tensile Strength: $\geq$ 128 MPa

Bending Strength: $\geq$ 230 MPa

Reflector: ASTM D4956-09 Type 11

Clamp: Corrosion-resistant Aluminum (DIN G-ALSi10Mg)

Wire Diameter: 70 mm², 96 mm²

Suspension Wire Protector: Neoprene Pad

Bolts and Washers: Hot-dip Galvanized Steel (EN ISO 10684)



MODEL: WS4R4



LIGHTED MARKER BALL

Designed in compliance with TEİAŞ specifications and standards, equipped with solar panels and lighting features to ensure high-voltage line visibility.

MODEL: WS9R1

TECHNICAL SPECIFICATIONS

8 Wp Flexible PV Panel
ICAO Type A or Type B
Low-Intensity 360° Beacon
(40 Blinks/minute)
Self-rotating Stabilizer
Automatic Night Detection
32000mAh Li-ion Battery
5-day Autonomy GPRS Communication

Diameter: 600 mm $\pm$ 10 mm
Color: RAL2002
Operating Temperature: -30 to +45 °c
Body Material: Glass fiber-reinforced composite
Tensile Strength: $\geq$ 128 MPa
Bending Strength: $\geq$ 230 MPa
Reflector: ASTM D4956-09 Type 11
Clamp: Corrosion-resistant Aluminum (DIN G-AISi10Mg)
Wire Diameter: 70 mm², 96 mm²
Suspension Wire Protector: Neoprene pad
Bolts and Washers: Hot-dip Galvanized Steel (EN ISO 10684)



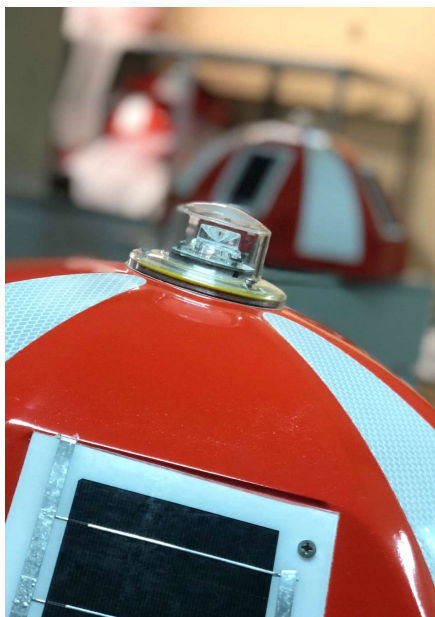
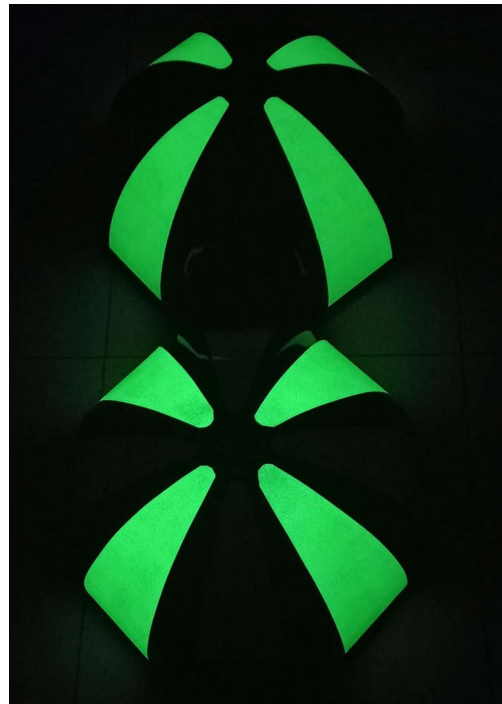
LIGHTED MARKER BALL

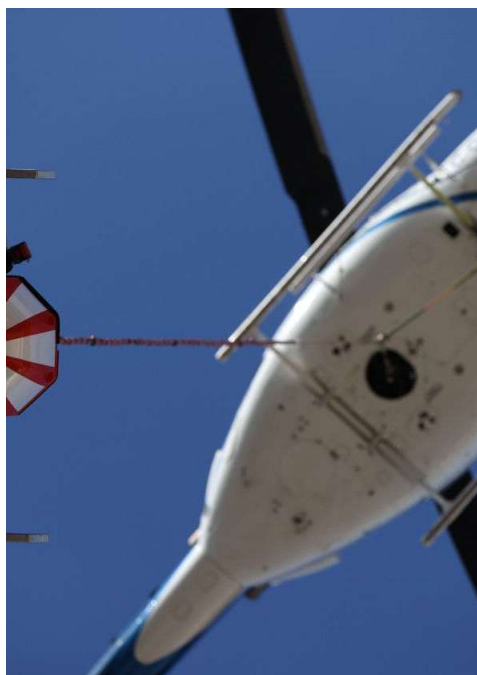
TESTS PASSED (as per TEİAŞ standards):

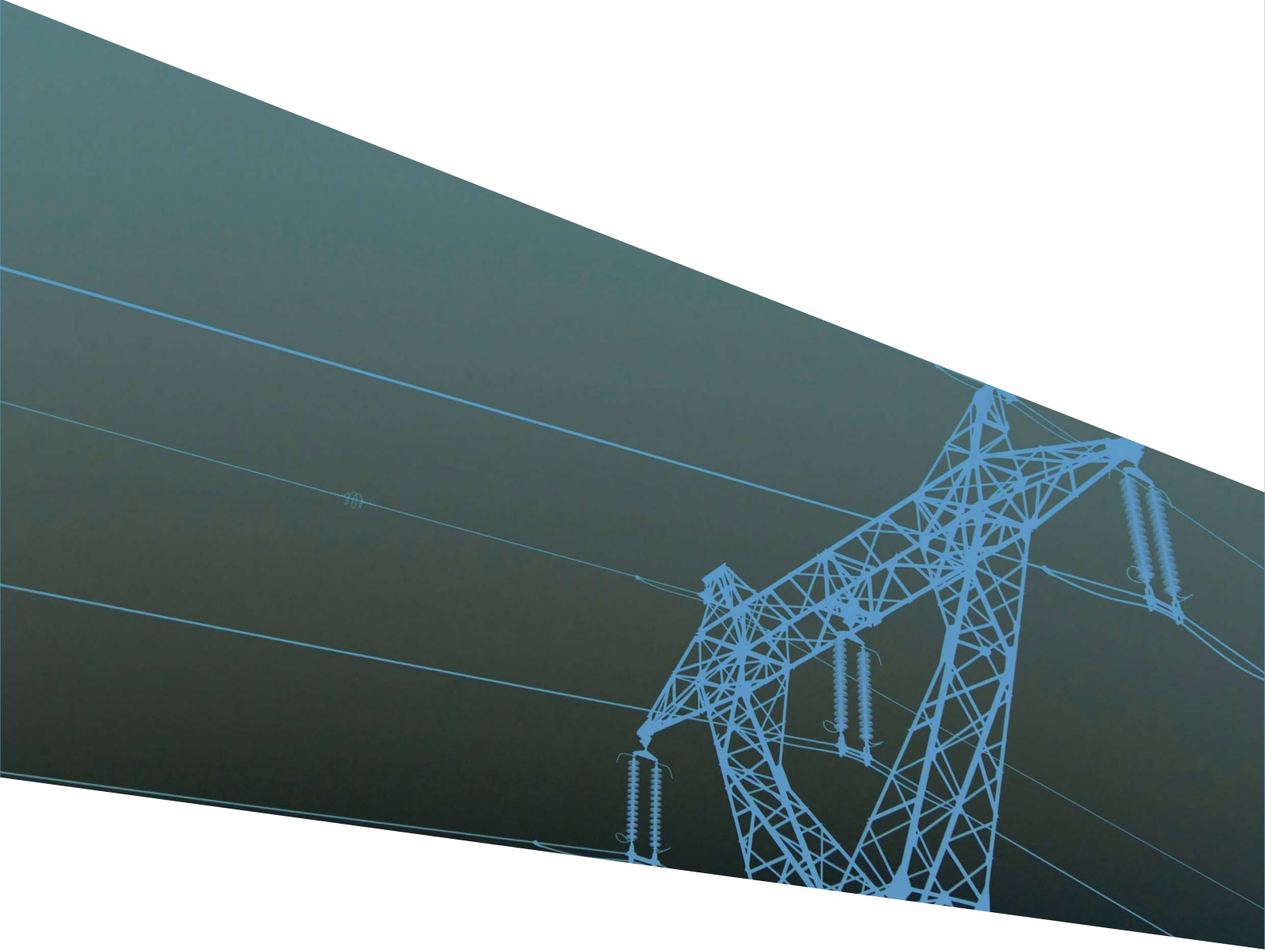
- 1000-Hour Salt Mist Test
- Thermal Resistance Test
- Tracking Resistance Test
- IR Spectroscopy Test
- Flammability Test
- Hydrophobicity Test
- TGA and DSC Thermal Analysis
- Tensile Strength Test
- Bending Strength Test
- Hardness Test
- Protection Class Test (IP65)
- Lightning Impulse Current Test
- Mechanical Routine Test
- Visual Inspection
- General Function Test



PRODUCT IMAGES







YILDIZ TEKNOPARK

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