

Optical Separator Anti-Electrical Tracking Maintenance

Article Overview

Maintaining optical separators with anti-electrical tracking involves regular calibration, valve checks, and using specialized polyethylene sheaths to prevent electrical surface damage.

Anti-Electrical Tracking Materials for Optical Cables

Optical cables, especially All-Dielectric Self-Supporting (ADSS) cables, require jackets resistant to electrical tracking to prevent surface corrosion and ensure long-term outdoor operation. Anti-tracking polyethylene sheaths are typically made from a blend of high-density polyethylene (HDPE) and low-density polyethylene (LDPE), combined with anti-tracking agents such as bismuth titanate, zinc oxide, or mica. Additional components include oxidation inhibitors (e.g., antioxidant 1010) and lubricants like polyethylene wax to enhance durability and processing performance. The composition ensures the cable can withstand high-field environments without faults while maintaining mechanical strength and flexibility .

Optical Separator Maintenance

For optical sorting systems, such as NIR or VIS-based separators, proper maintenance is critical to maintain high purity and throughput:

- **Calibration:** Regular calibration of the illumination and sensor units ensures accurate detection of material properties. Environmental changes, bulb aging, or te...

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