

Station Post Insulators ANSI TR-208

Station Post Insulators | Datasheet | Pingxiang Huahao Insulator Co., Ltd.



A porcelain station post insulator to ANSI TR-208 design, used to support and isolate conductors in substation busbar systems and switchgear arrangements. The insulator provides mechanical support and electrical isolation under high voltage conditions. It is designed for fixed mounting applications where rigid conductor positioning is required.

Specifications

Parameter	Value
ANSI Class	TR-208
Diameter (D)	6 9/16 inches (167mm)
Height (H)	14 inches (356mm)
Leakage Distance	24 inches (610mm)
Cantilever Strength	2,000 pounds (9kN)
Tensile Strength	10,000 pounds (44.5kN)
Compression Strength	10,000 pounds (44.5kN)
Torsion Strength	8,000 inch-pounds (904Nm)
Low Frequency Dry Flashover Voltage	110kV
Low Frequency Wet Flashover Voltage	75kV
Critical Impulse Flashover Voltage Positive	170kV
Critical Impulse Flashover Voltage Negative	250kV
Impulse Withstand Voltage	150kV

Key Benefits

- Cantilever strength of 2,000 pounds (9kN) supports conductors under lateral load
- Tensile and compression strength of 10,000 pounds (44.5kN) each ensures stability under axial forces
- Torsion strength of 8,000 inch-pounds (904Nm) resists twisting from conductor movement
- 610mm leakage distance per unit supports performance in polluted and coastal environments
- Dry flashover voltage of 110kV and wet flashover voltage of 75kV meet ANSI TR-208 electrical requirements
- Impulse withstand voltage of 150kV provides protection against transient overvoltages

Application Scenarios

- Substation busbar systems where rigid conductor support is required at switchgear and disconnectors
- High voltage switchgear installations with fixed conductor routing and minimal movement
- Replacements in existing substation layouts where ANSI TR-208 dimensions must be matched
- Industrial sites with high pollution levels where extended leakage distance prevents flashover

- Applications requiring high torsional resistance due to conductor vibration or seismic loading

Materials

- Glazed electrical porcelain dielectric body
- Galvanized malleable iron or forged steel metal fittings
- Portland cement bonding the fittings to the porcelain

Use Guide

- Verify the mounting dimensions and mechanical load requirements match the existing switchgear or busbar layout
- Use the 610mm leakage distance to assess performance in polluted or coastal environments
- Ensure the cantilever strength of 2,000 pounds (9kN) is sufficient for lateral conductor forces including wind and ice
- Handle by the metal fittings and store on the pallet supplied to protect the porcelain body
- Inspect for glaze damage, cement cracks or fitting corrosion before installation

Certification: ISO 9001:2008 | Standards: GB ANSI BS DIN AS IEC | Design capability up to 500kV AC and 400kV DC. For a quotation email admin@huahaoinsulator.com with the class, coupling type, quantity and destination.