

# Semiconductive Glaze Insulators



## Applications

Semiconductive Glaze Insulators are specifically designed for applications in contaminated environments.

Contaminated environments most frequently experienced include:

- Sea salt, salt fog and mist
- Industrial and agricultural pollution
- Powerplant coal and cooling tower mist
- City and expressway pollution
- Icing and snow bridging conditions



Semiconductive Glaze systems have been employed in the industry for over 50 years with nearly flawless field experience.

The original development of the Semiconductive Glaze system dates to the 1940's. Utilizing dopants of Tin and Antimony, the glaze is transformed from insulating to semiconducting.



Newell-PSN initiated a 5-year R&D project to develop and implement the glaze technology.

Newell-PSN has delivered multiple orders and sees a quick demand growth for this application.

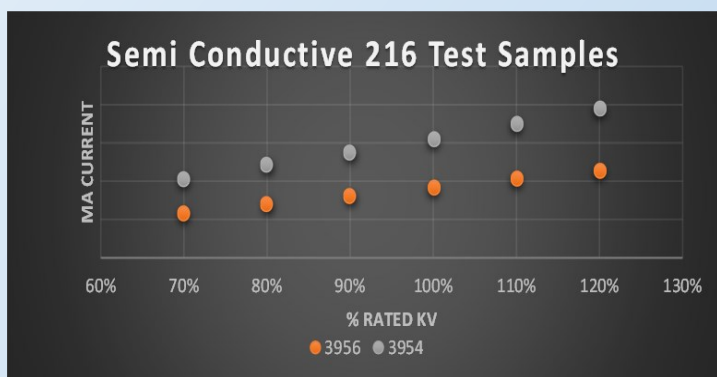
# Semiconductive Glaze Insulators

## Quality, Testing and Validation



### Design Tests:

- All designs tested to ANSI/IEEE C29.9 2017
- 100% of units are tested and verified to specific resistive leakage current levels
- Artificial pollution tests conducted per IEC 60507 withstood the highest level of salinity defined by the standard, 224kg/m<sup>3</sup>
- During comparative testing, Semi Conduc-tive Glaze units dramatically out performed standard insulating glaze and silicon coated insulators.



Below is a partial list of Newell-PSN units. Please contact us for a quote on these, and the rest of our product offering:

ANSI TR #	Newell Part #	ANSI TR #	Newell Part #
TR-202	NPSCG202-7001	TR-286	NPSCG286-7001
TR-205	NPSCG205-7001	TR-287	NPSCG287-7001
TR-208	NPSCG208-7001	TR-288	NPSCG288-7001
TR-210	NPSCG210-7001	TR-289	NPSCG289-7001
TR-214	NPSCG214-7001	TR-291	NPSCG291-7001
TR-216	NPSCG216-7001	TR-295	NPSCG295-7001
TR-222	NPSCG222-7001	TR-304	NPSCG304-7001
TR-225	NPSCG225-7001	TR-308	NPSCG308-7001
TR-227	NPSCG227-7001	TR-324	NPSCG324-7001
TR-231	NPSCG231-7001	TR-367	NPSCG367-7001
TR-267	NPSCG267-7001	TR-369	NPSCG369-7001
TR-278	NPSCG278-7001	TR-391	NPSCG391-7001



**NEWELL-PSN, LLC**  
A Power Grid Components Inc. Company



235 E. State Route 14, Unit 4 • Columbiana, OH 44408

sales@newellporcelain.com • Office: 304-387-2700 • Fax:304-387-2792