

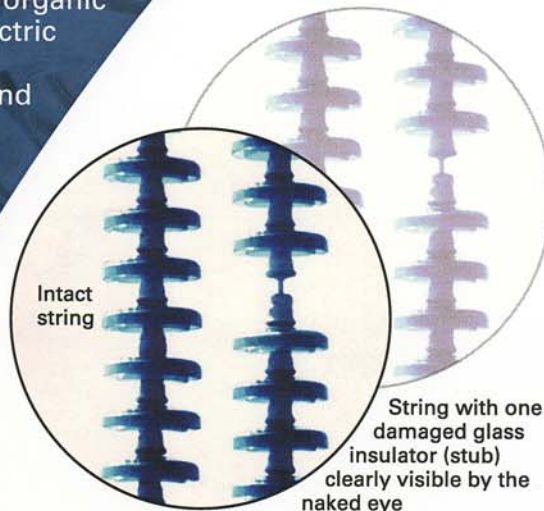
FOR LONG LIFE... LOW MAINTENANCE COSTS AND SAFETY... CHOOSE: SEDIVER TOUGHENED GLASS INSULATORS

LONG LIFE AND LOW LIFE - CYCLE COSTS

No ageing:

Toughening of the dielectric glass shells is at the heart of Sediver glass insulator technology. The toughening process imparts to the glass shells very high strength and outer-surface compressive stresses. This intrinsic mechanical property makes the Sediver toughened glass insulators immune from micro cracks and virtually free from ageing. The natural phenomena of aging affects porcelain insulators by the gradual propagation of micro cracks, which are an inherent property of this material.

Aging of composites is a complex phenomena mostly resulting from the organic nature of the dielectric material and its sensitivity to UV and E-fields. Moisture penetration of composite insulator materials can accelerate their ageing and cause brittle fracture failures.



EASY INSPECTION AND LOW MAINTENANCE COSTS

Reliability at a glance

One of the most unique and useful properties of Sediver toughened glass insulators is their ability to clearly and instantly reveal when they are damaged. This is possible thanks to the purity of Sediver toughened glass and the intrinsic properties imparted to the glass shell by the toughening process. If the shell is there the insulator is good.

A damaged glass shell will instantly reveal its condition by shattering in small fragments. The remaining "stub" is perfectly sound mechanically, and a quick visual inspection will reveal its electrical condition without the need for any measurement or instrument. Condition assessment of Sediver toughened glass insulator strings can be accomplished by simple, at a glance, inspection from a distance: by ground patrol or from a helicopter.

Only toughened glass insulators can completely reveal their condition without the need for climbing the transmission towers. Therefore, the inspection and condition assessment of even long and remote HV lines can be done very quickly and at a fraction of the cost required for lines equipped with porcelain or composite insulators.

SAFETY FOR LIVE-LINE WORK

No hidden defects

Hot line maintenance is safer on transmission lines equipped with Sediver toughened glass insulators. Due to the intrinsic properties of toughened glass, there can be no hidden electrical defects (such as punctures or cracks) in the glass shells. Even with a missing shell, the Sediver insulator "stub" retains its full rated mechanical strength (high residual strength). No other insulator offers such a high level of electrical and mechanical reliability, verifiable by simple visual inspection.



The exclusive qualities of Sediver toughened glass insulators makes them the ideal choice for all HV(AC-DC) line projects, as well as for re-insulating existing lines due to ageing or for upgrading.



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