



Shear blade mark

VITROVEX deep sea glass products exhibit remarkable freedom from bubbles and other imperfections such as inclusions of stones or crystals. Such melting characteristics are inhomogeneities in the glass that originated in the glass melt and are visible following forming and solidifying. These defects in glass cannot, however, be completely avoided due to the complicated glass composition and manufacturing process.

The shear blade mark in particular results from the glass drop that is cut with the aid of shears from a stream of liquid glass flowing from the melt. During this process, a significant temperature difference occurs at the cutting point that impacts the cooling behavior. The imprint of the shears remains, and subsequently will be visible in the glass afterwards. A few typical examples are shown below.

"I noticed a crack in a shape of a "fern leaf" on the bottom hemisphere. The crack seems internal within the glass: No roughness in the inner or outer surface of the housing can be felt at the fingers."



A shearing blade mark is a characteristic that is unavoidable during the production process and should not be equated with a defect. A shearing blade mark is by no means a failure criterion, rather a typical side-effect of the production process.

For VITROVEX glass products, the shearing blade mark is always spread out over the polar region to a greater or less extent.

There is no evidence that a shearing blade mark causes any operational problems.