

Questtec SOLUTIONS

WHY MICA

- In boiler applications steam enters the gauge glass through the top steam piping.
- As steam cools it condenses and condensate begins to flow down the chamber and fill the sight glass.
- The condensate attacks borosilicate glass and above 350 PSI, shielding the glass is required to lessen maintenance intervals.
- MICA is the best solution for material when it comes to shielding borosilicate glass in steam applications.
- Mica is a naturally occurring silicate mineral used in many applications. In gauge glass design, it is placed between the process media and the borosilicate/ aluminosilicate glass. Muscovite Mica is the specific type of mica utilized in gauge glass applications.

MICA CLARITY GRADE

Mica is visually inspected and classified into groups based on clarity, and quality. The scale consists of grade V1 through V10. Gauge Glass uses grade V1 through V4.

- **V1** Clear, Color Tint, Highest Level of Visibility
- **V2** Slightly Darker Color Tint, Excellent Clarity
- **V4** Darker Color Tint, Economic Quality

MICA THICKNESS

- "HQ or High Quality" is a reference to thickness of MICA
- QTS Flat Glass: 0.009" - 0.012"
- QTS Bi-Color STB-3000A: 0.030"

QTS OFFERS THE FOLLOWING MICA SHIELDS:

Green V2 HQ Mica Shield

- › Flat sight glass standard

Ruby V2 Mica Shield

- › Flat sight glass by request

Ruby HQ V4 Mica Shield

- › Flat sight glass by request

Green V1 HQ Mica Shield

- › QTS Bi-Color STB-3000A: 0.030"
- › Kit includes 4 pieces per module
- › Standard Ported Sight Glass offering

WHY GREEN MICA

QTS has standardized on offering **HQ V2 Green Mica** for flat glass transparent assemblies

QTS has standardized on offering **HQ V1 Green Mica** for our flagship **STB-3000A Ported Sight Glass**.

Due to QTS vast experience with Mica in steam service we have found green colored Mica to be preferential to ruby as it is a lighter color shade therefore easier for operators to see the water/steam interface in the field.

