

Why We Use Aluminosilicate Glass

Aluminosilicate is a rare family of glass with three important features: It's harder to scratch, more difficult to see scratches that do occur, and it does not break or shatter due to reduced strength after it might scratch or chip. In other words, aluminosilicate glass looks better longer and takes more abuse.

Unique Family of Glass: Aluminosilicate Al^2SiO^5

- Aluminosilicate glass is suited for high-performance applications:

Space shuttle windows

Laminated safety glass

High temperature thermometers

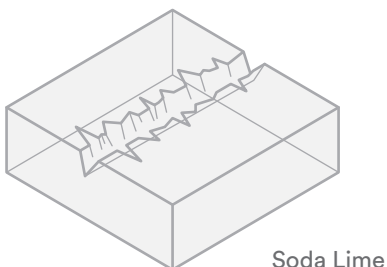
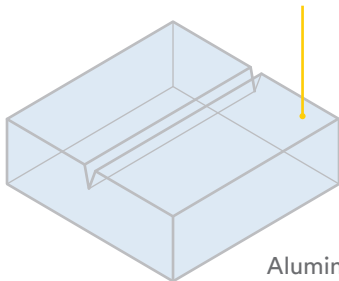
Solar panel cells



Up to

25%

reduction in scratch visibility



Unique Manufacturing Process

- We formulate our glass through a series of 15 steps.

STEP 1

#1: .33mm glass

STEP 2

STEP 3

#3: Tempering process

STEP 4

- Glass is reheated to a higher temperature then rapidly cooled, making the glass stronger.

STEP 5

STEP 6

#6: Ion-strengthening process

STEP 7

- Chemical bath removes sodium ions and puts in stronger potassium ions.

STEP 8

STEP 9

STEP 10

STEP 11

#11: Impact-absorbing adhesive

STEP 12

- An extra layer of impact absorption.

STEP 13

STEP 14

STEP 15

- The difference between soda lime and aluminosilicate glass is the scratch-ability. Aluminosilicate does not flake off at the edges, making scratches harder to see.