

DuraTuff®

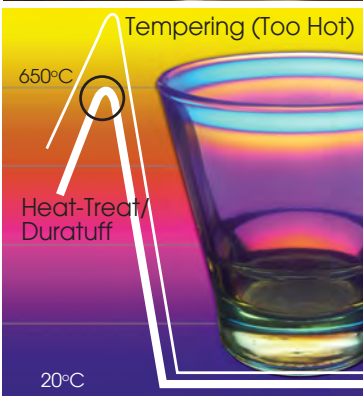
DuraTuff® tumblers includes: Brooklyn • Dakota
Elan • Endeavor • Everest • Gibraltar Original
Gibraltar Stacking • Gibraltar Twist • Inverness
Paneled • Picadilly • Winchester



T: 020 8391 5544
sales@artis-uk.com
www.artis-uk.com

DuraTuff®

DuraTuff® tumblers includes: Brooklyn • Dakota
Elan • Endeavor • Everest • Gibraltar Original
Gibraltar Stacking • Gibraltar Twist • Inverness
Paneled • Picadilly • Winchester



Why are Libbey's Processes tough to beat?

Libbey's DuraTuff® treatment is a super strengthening thermal afterprocess for "pressed" tumblers and stemware. A similar process is used on blown ware products. Those item numbers are designated with an "HT". The DuraTuff process is performed only on the upper portion of the glass increasing its resistance to thermal and mechanical shock. It produces some of the most durable glassware in the industry. It's barware tough.

What is the difference between DuraTuffing and tempering? Libbey's exclusive processes were developed not only to reduce breakage and chipping, but to also change HOW a glass breaks - an important safety consideration in foodservice operations. Fully tempered glass is unstable. Inappropriately tempered glassware shatters in an explosive manner. It breaks into smaller jagged pieces that can travel long distances potentially contaminating ice bins or salad bars.

Libbey's heat treating process quickly raises the temperature of glass from about 20°C to almost the melting point (650°C) then quickly cools the glass in a controlled manner. The result can be seen in this polarized light photo which shows when the internal strength of glass has been increased.

Treating just the upper third of the glass at a lower temperature puts less stress on the glass and positively affects HOW the glass breaks as well as improving overall durability.

You can count on Libbey to deliver a smarter, safer, more durable and profitable glass every time - and that's a tough combination to beat!



LIBBEY®

TOUGHSTUFF We Guarantee it!



● Libbey Safedge® Rim Guarantee

If the rim of any glass covered by the Safedge® guarantee chips, Libbey will replace or refund the price of the glass when it is returned to the dealer/distributor from whom it was originally purchased.

■ Libbey Safedge® Rim & Foot Guarantee

If the rim or foot of any glass covered by the Safedge® guarantee chips, Libbey will replace or refund the price of the glass when it is returned to the dealer/distributor from whom it was originally purchased.

✘ Libbey SheerRim D.T.E.® Guarantee

The SheerRim D.T.E.® guarantee covers all products with a crack-off rim. If the rim of any glass covered by the guarantee chips, Libbey will replace or refund the price of the glass when it is returned to the dealer/distributor from whom it was originally purchased.

★ Heat-Treated

Libbey's heat-treated glassware offers increased resistance to thermal and mechanical shock. This secondary process on 'blown' glassware is performed only on the upper portion of the glass where most abuse occurs.

Examples of chipped ware **covered** by Libbey guarantees

Chipped Edge



Chipped Foot



Examples of broken or cracked ware **NOT covered** by Libbey guarantees

Broken Edge



Cracked Edge



Broken Foot

