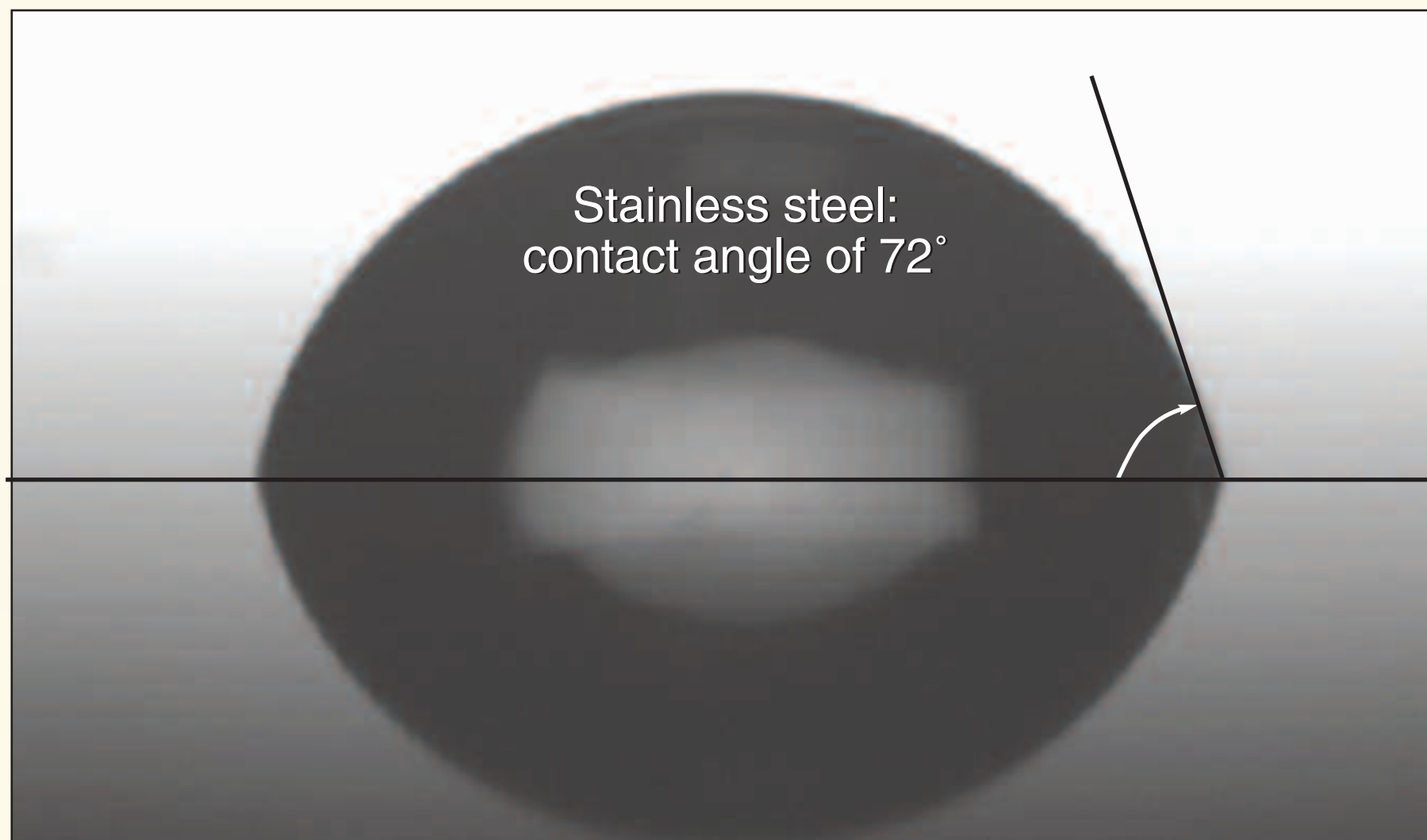
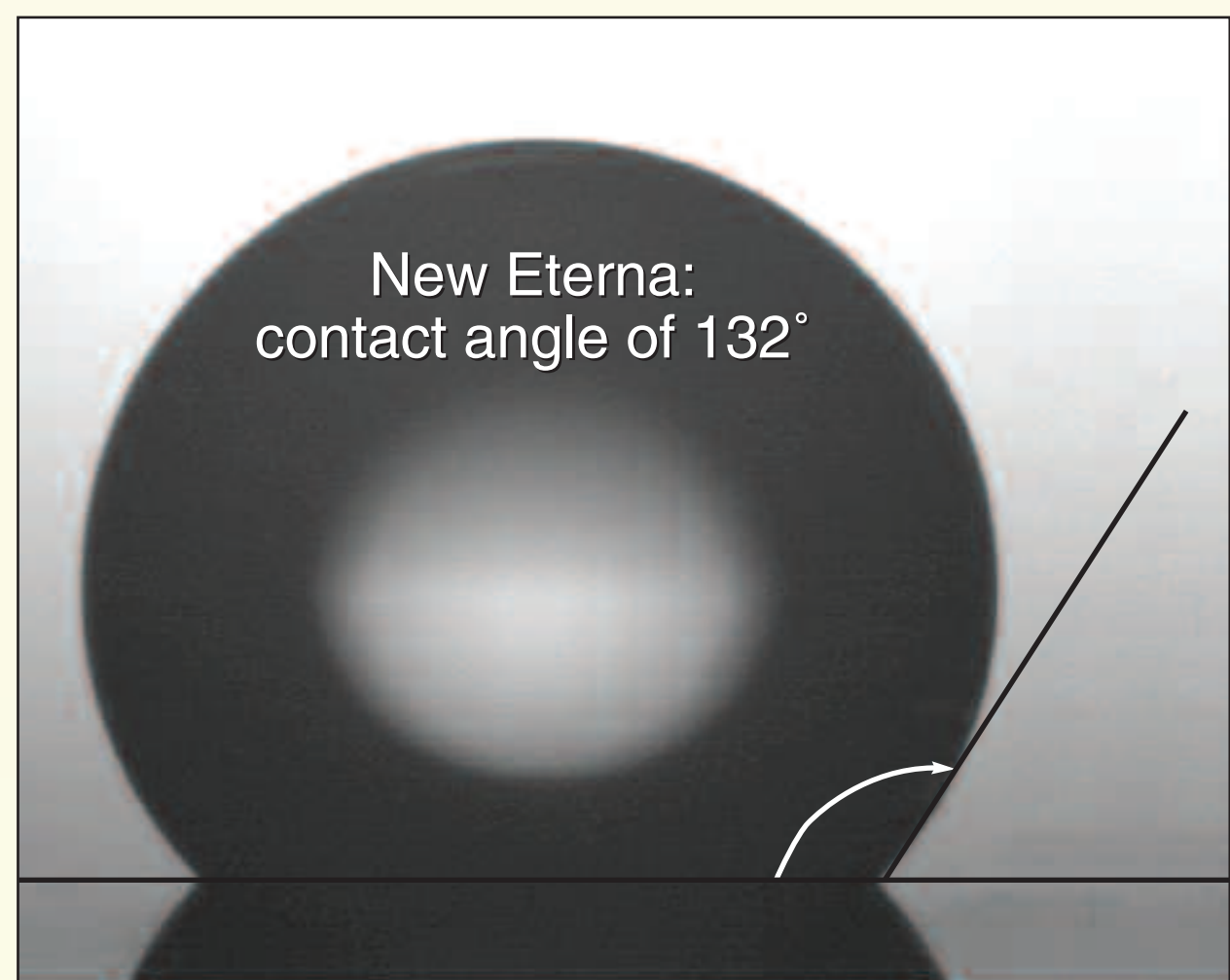
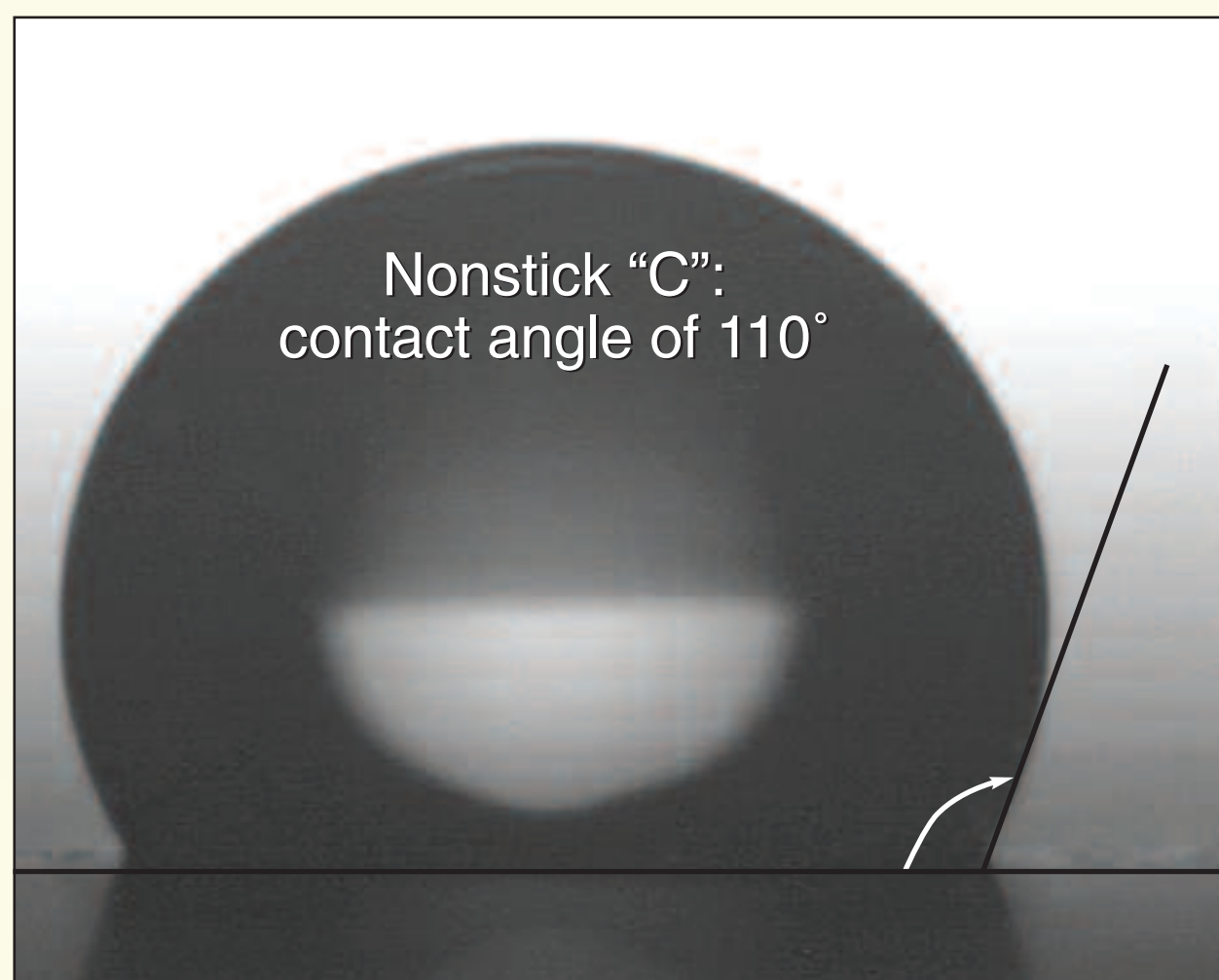


Contact angle: measuring release by surface tension



The contact angle measures any difference between the surface tension of a substrate and the surface tension of a drop of water. Here the substrate is stainless steel, and the contact angle is only 72 degrees. Notice the flattened shape of the drop as it “wets out” on the steel surface.



On the left is the best of the competitive coatings tested. The water “beads up” off the nonstick surface because of the great difference in surface tensions. On the right is Eterna™, which beads up even more due to increased surface tension, which means additional release.