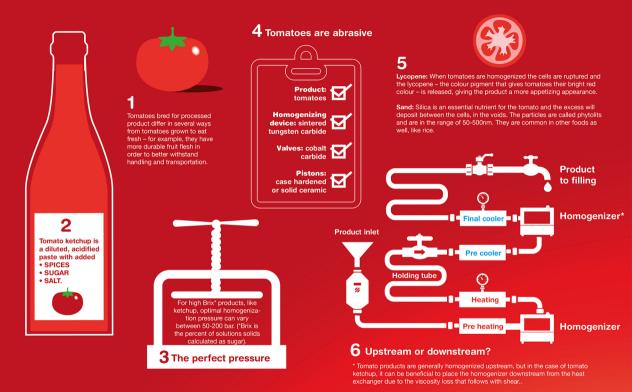
THE KETCHUP EFFECT

One of the world's favourite sauces, ketchup poses challenges for food producers. Here's how homogenization can help.



$oldsymbol{7}$ No one likes watery ketchup

Homogenizing tomato products minimizes watering off by increasing the hydrogen bonds between water and cellulose in the fibres. Shear forces and turbulence break the intermolecular bonds in the cellulose. Where the bonds break, water will enter to create a network between the fibres. This network will also prevent free flow of the non-bound water in the product.



Graded paper



Specific amount of ketchup is put on to paper



for a set time



The spreading of the water is measured in [length/time unit]