

Delivering Consistently Bright and Clear Beer



From local craft brews to international mega-beers, success comes down to achieving and maintaining a fine, filtered taste. For over 50 years, 3M has worked with breweries of all types and sizes around the world to provide reliable, cost-effective separation and purification solutions.

From the source water used at the start of the brew process to the filling of the barrels or bottles, the filtration and separation processes employed ensure the clarity and consistency that beer drinkers associate with a quality brew.

The filtration stages in breweries tend to get successively tighter at each stage of the process, initially to remove larger particles such as yeast and sediment, followed by effective removal of any spoilage bacteria, which ensures the beer is microbiologically stable in order to preserve flavour and maximise shelf life.

3M provides complete filtration solution for global beer producer

A global beer producer recently approached 3M to supply the filtration solution on their new production line facility.

To meet the increase in demand for their beers the customer wanted to create a new production line with a focus on improving production efficiency and increasing quality, whilst also reducing maintenance and production costs. They also aimed to make sure their new plant minimised its environmental impact by optimising the process, helping reduce energy consumption and waste generation.

In addition to the products offered, one of the biggest selection factors was the effective technical and engineering services offered by 3M, which covers the full customer service project cycle from plant specification analysis to field trials of different 3M solutions and help with production set up to help ensure everything is installed and operated to the correct specification.

The challenge faced by the brewery in its current filtration operations was achieving a consistently clear and bright beer before the pasteurisation process. 3M Engineers identified through trial and test work that the current DE trap filters were variable in their performance, requiring additional processing to achieve the required final quality. To ensure the quality could be delivered consistently 3M qualified a series filtration set up of 3M High Flow™ filters followed by a selected grade of 3M Zeta Plus™, which delivered the specification in a single pass operation.



This complete solution has also given the producer the ability to quickly increase their production capacity if needed. By combining high quality and performance with experienced technical services and trials, the company had the confidence that every stage of their filtration process is optimised with the help of 3M expertise.

See how 3M can improve your brewing processes

If you need product, technical or application advice about how our products can help you improve your filtration process then get in contact with us today. 3M has a global support network of market focused scientists and engineers that excel in assisting collaborative efforts between our customers and 3M.



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