

The logo for Hygan, featuring the word "hygan" in a lowercase, cursive, blue font. Below the text are three wavy, horizontal lines in shades of blue and black, suggesting a liquid or foam-like texture.

Hygan In-line Slip Filter – a testimonial from one of our customers

One of Hygan's largest customers, who has purchased a large number of these products, explains the benefits and the enhancements to production as a result of using in-line slip filters :-

"It is very easy to think that in-line slip filters are unnecessary on slip casting systems. Depending upon the volume of casting slip used, there are various methods employed to get the casting slip to the casters.

For example, these methods can include :-

1. A fully functional slip house, usually in a large pottery, which buys in raw materials to prepare the plastic clay for manufacturing, together with the casting slip and possibly even material prepared for dust pressing
2. The preparation of casting slip from press cakes from a body prepared by a specialist supplier
3. Casting slip prepared and set up ready to use again from the specialist supplier.

Most people starting up on a small scale shall begin by buying prepared casting slip in small quantities, but if this proves successful, they will soon begin to see the disadvantages of this method

Basically the more slip that you buy, the lower the unit price, but if excess slip is kept in a tub, without agitation, the slip shall require more attention and adjustment to ensure consistency

A successful, growing company shall see the advantages of, as a minimum, a system with a circulation pump, pipework and a storage ark with agitation,

It is easy to believe that since the slip has been prepared to a specification, including removal of impurities by the use of sieves and magnets, then everything is OK. However there is a possibility of contamination of the slip over time and this should not be overlooked

If most of the cast items are hollow ware, then they shall be poured after the desired thickness of cast is achieved and returned to stock. The moulds shall then need to be supported above the casting trough on a type of framework, which is usually made of wood. Unfortunately, as time goes by, the moulds, framework and trough shall sustain damage, all of which can cause contamination of the slip.

Casting slip can be surprisingly abrasive and can cause internal wear to the pipework and the rest of the system over time. Surprisingly large amounts of dust can also settle from the workshop atmosphere onto the slip, so ventilation is usually a necessity in hot casting shops.

All of the above are good reasons to fit in-line slip filters, and it is even more important if the fired body shall be translucent.

After fitting the filters, it's a relatively easy process to establish the necessary cleaning frequency and to observe the quantity of contaminants removed"

If you require any further information regarding this product, then please contact us