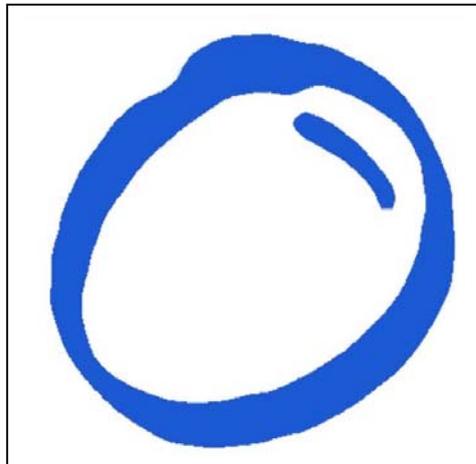


# **Commercial dishwashing & wash ware made of opal glass**

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| <b>What is opal glass?</b>  | <p>Opal glass or opal-glass dinnerware consist/s entirely of glass mass that has been toughened using a special production technique which gives it two to three times more mechanical resistance than normal glass dishes.</p> <p>The basic ingredients are a fusion of quartz sand, lime, soda, clays and other added natural substances.</p> <p>Opal glass is manufactured in the basic colours of white and ivory.</p> <p>Opal glass comes in undecorated or decorated form.</p> |
| <b>What properties does opal glass have?</b>  | <p>Opal glass has a smooth, hygienic surface and a high heat storage capacity.</p> <p>The mechanical strength and hardness of opal glass guarantee a long service life even under tough conditions.</p> <p>Opal glass is not attacked by food acids or salt.</p>   |
| <b>What is opal glass used for?</b>   | <p>Opal glass is used in the manufacture of tableware and cookware for the household and professional sectors.</p>   |
| <b>Is opal glass suitable for commercial warewashing?</b>                               | <p>If detergent and rinse aid are dosed correctly, problems are unlikely to occur (see VGG technical information sheet "<a href="#">Commercial dishwashing &amp; dosing</a>").</p> <p>In particular individual cases, higher dosages may be necessary.</p> <p>Opal glass's high heat capacity, in combination with rinse aid solution, ensures complete drying, which is further facilitated by the good wettability of opal glass.</p>  |
| <b>What must be borne in mind when purchasing opal glass for automated warewashing?</b> | <p>Opal glass which is designated by the manufacturer as being of a quality suitable for the professional sector should be used.</p>   |
| <b>Can decorated opal glass be cleaned in commercial warewashers?</b>                   | <p>In the case of opal glass, decorations are printed onto the surface and fired during the subsequent hardening process.</p>  |

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|  | <p>Problems scarcely ever arise even with decorated opal glass. Opal glass surfaces in dark colours can also be washed and rinsed in commercial warewashers without any problems, provided high levels of water hardness are prevented and the total mineral content of the water is not too high.</p> <p>However, where the total mineral content is high, problems can arise, particularly with opal glass in dark colours, as the high levels of evaporation residue are more clearly visible against the dark background (see VGG technical information sheet "<a href="#">Commercial dishwashing &amp; water</a>").</p> |
| <b>Are the shapes of opal glass dishes suitable for automated warewashing?</b> | <p>The production process used in opal glass manufacture means that wash ware made of opal glass comes in functional shapes which, being smooth, wide open and rounded are particularly suitable for professional dishwashing in canteens, hospitals and large gastronomic establishments.</p>   |
| <b>Is opal glass of unlimited durability?</b>                                  | <p>Opal glass has a long service life, but is not completely unbreakable.</p> <p>Mechanical influences when handling the wash ware can damage the surface even of toughened opal glass.</p> <p>Opal glass with a damaged surface is more difficult to clean, and the wash result is then usually no longer satisfactory.</p> <p><b>It is recommended that damaged items be replaced.</b></p>   |
| <b>What surface changes can occur?</b>   | <p>During handling of the wash ware, metal abrasion, caused e.g. by crockery dispensers or pieces of cutlery, may occur.</p> <p>Discolorations caused by metal abrasion cannot be removed in the dishwasher.</p>   |

**Technical advice provided by the member companies of the VGG**

This technical information sheet, which has been drawn up by experienced practitioners, is intended to draw the attention of the reader to the fact that professional automated dishwashing cannot be carried out successfully if it is approached superficially and without the appropriate involvement of all those participating in the warewashing process.

Only an understanding of the technical processes and of the interdependencies that these entail, teamwork on the part of all those involved, in particular the operator of the warewasher and his/her personnel, and regular maintenance of the warewasher, dosing equipment and water treatment system by the manufacturer will produce the washing results expected by the user.

Consistent cooperation between dishwasher, agent and dosing equipment manufacturers as well as manufacturers of water treatment equipment and wash ware will ensure constant and optimum adaptation to practical requirements, to the benefit of the customers they share and of the environment.

Enquiries regarding this technical information sheet "*Commercial dishwashing & wash ware made of opal glass*" should be addressed to

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