

Cleaning of glassware

All the laboratory glassware manufactured by NORMAX can be cleaned manually or using a laboratory washing machine.

NORMAX uses only the best quality glasses and printing enamels.

All the graduation marks are made using amber stains or enamels tested to comply with the requirements of the international standard ISO 4794 – Laboratory glassware – Methods for assessing the chemical resistance of enamels used for colour coding and colour marking.

Nevertheless, to reduce erosion of the glass and graduation marks, we recommend gentle cleaning with detergents of low alkalinity at temperatures below 70°C. Long immersion times are not recommended.

If the glass needs stronger cleaning procedures, we recommend filling the glassware with a mixture of equal parts of a 30 g/l solution of potassium permanganate (KMnO₄) and 1 mol/l solution of sodium hydroxide (NaOH). Two hours of contact with the cleaning mixture should be enough to remove the contamination. Then the residue of MnO₂ can be removed using diluted hydrochloric acid or oxalic acid, followed by distilled water.

All NORMAX glassware undergoes stabilizing thermal treatments at temperatures higher than 500°C. Nevertheless, we do not recommend the users to exceed the temperature of 180°C to dry volumetric instruments. Care should also be taken to avoid thermal shock.

If you need more information, please contact our Quality Manager – Isabel Faria

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and she will be glad to assist you.