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Glass types — Crystal glass, crystal and lead crystal — Specifications and test methods

*Types de verres — Cristallin, cristal et cristal au plomb —
Spécifications et méthodes d'essai*

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Foreword

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Introduction

This document is intended to provide specifications and test methods for three crystal glass types (crystal glass, crystal, lead crystal) used in consumer goods in relation to tableware, containers, furniture, home decor, jewellery and any other decorative components in consumer goods. The purpose is to promote a global understanding of consumer quality requirements, together with corresponding methods to measure the specifications.

The three crystal glass types are determined based on three criteria: chemical composition, refractive index and density. A maximum lead content criterion is added for crystal and crystal glass.

The refractive index depends on the chemical composition of glass. While lead oxide remains the most efficient constituent to obtain a high refractive index because it favours general qualities (mass purity, high transparency for non-coloured glass), other components such as calcium oxide, barium oxide, zinc oxide may also contribute to a high refractive index.

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