

# 10 reasons why lead crystal is superior

## ① brilliance and refraction

lead crystal shows the highest refractivity of light of all tableware glasses resulting in sparkling surfaces and brilliance.

## ② dispersion

like a prism lead crystal splits the white light into spectral colours far more than all other lead-free tableware glasses.

## ③ colour and transmission

lead crystal is produced from only a few selected extra pure raw materials containing very low iron impurities. From there lead crystal can easily be decolourised featuring an excellent light transmission. Lead crystal is crystal-clear and bright.

## ④ chemical resistance

the high content of the stabiliser lead oxide (> 24 % by weight) in the glass guarantees a superb chemical (dishwasher) resistance.

## ⑤ solarisation

in lead-free glasses prolonged exposure to sunlight may cause an undesirable tint (solarisation). In lead crystal radiation is absorbed by the lead content and polyvalent components are protected from colour change.

## ⑥ melting and forming behaviour

lead crystal surpasses all lead-free tableware glasses in its excellent melting and forming behaviour. Even extreme shapes are feasible in optimum quality.

## ⑦ grindability

compared to other glasses lead crystal is softer and less brittle. Therefore it is particularly suitable for cutting and grinding.

## ⑧ perfect polish

an optimum surface brilliance can be achieved with chemical polishing only from lead crystal. Acid polishing of lead- and barium-free glasses in an industrial scale leads to so far unsolved problems.

## ⑨ high specific gravity

the European Communities Crystal Glass Regulations highlight the specific gravity or density as an important criteria of quality. In this regard lead crystal is unmatched too. Beside of gold lead is one of the heaviest non-radioactive elements. Generally speaking a high specific gravity stands for the attributes high-value, precious and noble (e.g. noble metals).

## ⑩ extraordinary sonority

lead crystal is easily distinguishable from all other lead-free glasses by its extraordinary sonority and resonance: „*lead crystal, you can hear it!*“