

Stop valves made of lead-free copper alloys - specially designed for drinking water installations requirements

Safety - Hygiene - Health - Well-being - Ecology

Choosing suitable materials is one of the most important aspects of drinking water installations.

The materials and products chosen not only have to meet technical and mechanical standards, but above all, they must also be hygienically safe.

To this end, the materials and products used are tested for the migration of chemical substances and the growth of microorganisms.

Due to basic statutory conditions (Drinking Water Ordinance - TrinkwV, UBA), the limit for lead was reduced to 10 µg/l. The evaluation criteria became effective on 10 April 2015.

Lead-free copper zinc alloys were developed especially for drinking water installation requirements. This material not only takes into consideration the legal requirements but also safety-related and hygiene aspects.

Chemical Composition
(nominal, mass fraction)

Cu	76%
Si	3%
P	0,05%
Zn	Rest

Our new lead-free copper-zinc alloy

- fulfils the legal requirements of the Drinking Water Ordinance (TrinkwV) and the hygiene requirements of the German Environment Agency for metallic materials.
- is stress corrosion cracking resistant (SCCR) and dezincification resistant (DZR), can be easily machined, ground, polished and chrome-plated.
- Hardly any other material used in drinking water installations has this combination of properties.
- as a typical copper alloy, uses our scarce natural resources carefully.
- is long-lasting and does not wear. It is completely reusable, as an excellent functioning recycling system already exists.
- has one of the best energy balances of all industrial materials, based on the overall manufacturing process.

