



CleanSafe®

HARDNESS



Everyone is aware that high hardness (DH/KH values) of water requires various measures to be taken to household systems like water cookers / dishwashers / laundry equipment / coffee makers to ensure they are well maintained and keep working. The debris which is left on faucets is also well known.

The background of this are the natural water sources which contain a certain percentage (normally too high) of calcium and salts.

To prevent ironing equipment from clogging up, distilled water is normally suggested. This water has less hardness factors but still much too high for applications like optical and acoustical cleaning.

For this reason one of the base liquids of CleanSafe® is not even distilled water but a liquid which has been treated extensively in all kinds of processes to reduce as much as possible also the hardness (KH/DH) factor.

Recently we evaluated CleanSafe® as base product as well as the various specialized versions thereof. We are happy to report that there is no other liquid on the market which has a lower KH/DH (generally referred to as HARDNESS) factor than CleanSafe®. The (according to Tetra measurement) DH/KH factor of CleanSafe® is below 2° (extremely soft).

We also evaluated all other so called competitive products we have on hand and found that the minimum KH/DH factors were around 15° or much higher. 50% of the products were at or above the maximum measurable levels of 20°. Details are available and any unknown liquid so far can be analyzed as well.

Without becoming too technical this is an additional amazing characteristic of the CleanSafe® products. No other products are on the market with a pH (acidity level – see other documents) like CleanSafe® and a KH/DH degree which is so tremendously low.

Commercially all this can be translated into the fact that CleanSafe® is the softest liquid known on the market, thereby preventing damage to treated objects due to higher hardness liquids as well as preventing hardness remains to be left at the treated object. This of course in addition to all other factors of CleanSafe®.