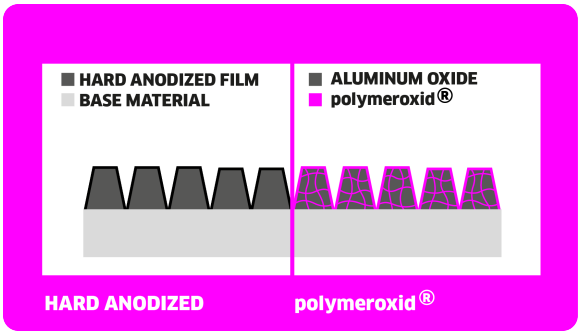
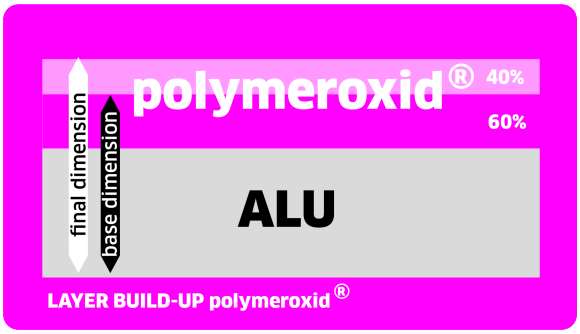
fischer®
OBERFLÄCHENTECHNIK FÜR DIE FEINMECHANIK

# POLYMEROXID®

After more than 2 years of development and countless test series in our technical center, we are pleased to present polymeroxid® to you. The further development of our established and widely used type H is the best performing hard anodic coating on the market. The focus was on maximum wear resistance with the greatest possible smoothness and was achieved by developing a new type of high-tech monomer-mixed acid electrolyte while optimizing all process-relevant parameters. xH4® outperforms traditional hard anodized coatings by up to 30% in terms of the quality of its properties! By developing the new polymeroxide® matrix, we were able to fundamentally optimize practically all application-specific properties. In addition to excellent wear protection, the modified structure resulting from the cross-linked polymers also leads to improved friction values, a reduction in the slip-stick effect and protection against cold welding. Our composite layer is now the benchmark for many well-known manufacturers. By selecting different parameter settings, we can adapt the topography and hardness of the coating precisely to customer requirements. For example, polymeroxid® xH4® and LF4 are based on the same new technology, but differ in the process parameters and therefore also in the optimization of the properties.




## xH4®

**maximum hardness / 500-550 MHV 0.25 (7075-T6)**
**maximum abrasion resistance**
excellent friction properties
smoothest hard anodized layer on the market
best possible corrosion protection
highest electrical shower impact strength
very good bonding properties with top coatings
**protects against cold welding**

## LF4

**high hardness / approx. 400 MHV 0.25 (7075)**
very good abrasion resistance
**excellent friction properties**
**smoothest type 2 1/2 layer on the market**
very high corrosion protection
increased electrical shower impact strength
very good bonding properties
**minimal stick-slip effect**