

Pumps and pumping systems

High chrome impellers and wear plates



Durable, wear resistant hydraulics

Industry challenges

Water and wastewater applications rely on submersible pumps and Sulzer's XFP pumps offer many solutions in terms of reliability and energy efficiency. Owing to the diverse range of settings these pumps are used in, a flexible approach in terms of material selections is required.

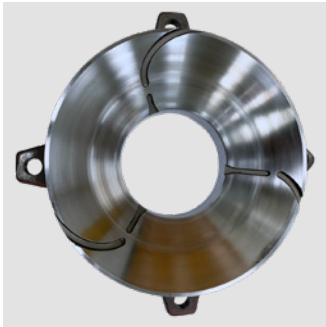
Highly abrasive or corrosive environments, for example, require more resistant materials to ensure crucial parts such as impellers and wear plates offer industry-leading performance.

Design choices

Cast iron components offer excellent value for the majority of applications. This cost-effective solution can be enhanced by a heat-treating process that prolongs the service life of these parts.

Duplex stainless steel (1.4470) provides excellent performance in corrosive environments such as seawater or media with elevated chloride concentrations. This material combines high strength and excellent corrosion resistance and is often specified for applications involving acids, chlorides, sulfides and abrasive particles.

High chrome, (ASTM A532 Alloy III A), is renowned for its hardness qualities and excellent abrasion resistance; the high alloy content also offers a reasonable corrosion resistance.

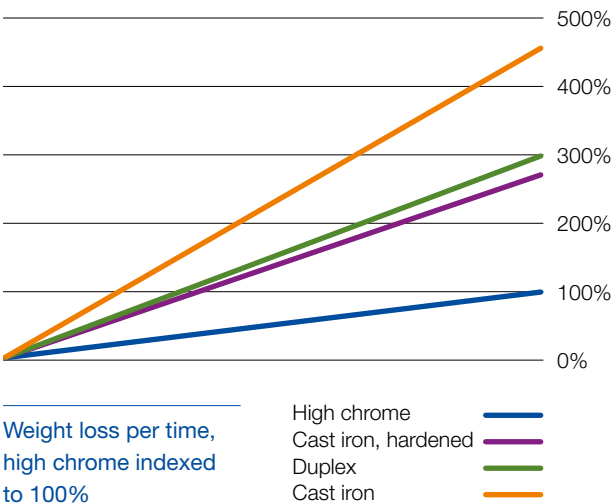


Proven performance

Sulzer conducts numerous tests to ensure that all hydraulics components meet the highest standards and are suitable for their intended applications.

Abrasion testing of high chrome and other materials using procedures defined by the German engineering federation, VDMA, highlights the impact on service life.

Compared to cast iron, duplex stainless steel extends the part lifetime by a factor of 1.5. High chrome takes this to the next level, offering up to 5 times the durability of cast iron. Sulzer's experience in the field suggests that these figures are conservative, and the actual lifetime of high chrome components is even greater.



Available for all ContraBlock Evo impellers and wear plates

To meet varying needs, we offer high chrome material as an upgrade option on all our ContraBlock Evo impellers and wear plates, for our submersible sewage pumps type ABS XFP. Contact us to learn more about how this upgrade can benefit your specific applications and ensure your pumps are ready for the most demanding challenges.



The Sulzer Flow division keeps your processes flowing. Wherever fluids are treated, pumped, or mixed, we deliver highly innovative and reliable solutions for the most demanding applications.

The Flow division specializes in pumping solutions specifically engineered for the processes of our customers. We provide pumps, agitators, compressors, grinders, screens and filters developed through intensive research and development in fluid dynamics and advanced materials. We are a market leader in pumping solutions for water, oil and gas, power, chemicals and most industrial segments.

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