

NEMO CERATEC® Ceramic Rotors



NEMO CERATEC® – Ceramic Rotors last longer

Probably the greatest advantage of the ceramic used for the NEMO CERATEC® rotor over metallic materials lies in the physical hardness. No steel, no coating can even come close to producing such impressive values. Only diamond is harder. All media, with which the NEMO CERATEC® comes into contact during operation, are softer than the

rotor itself. Damage to the contact surfaces is practically impossible, which ensures extremely high wear resistance.

In contrast to conventional rotor materials, which show wear in the form of a rough surface when used, the NEMO CERATEC® optimizes itself over time. This guarantees a long service life.

Advantages

- Increase in operational reliability of pumps and plants
- Reduction in maintenance times and costs
- Fewer spare parts required
- Increased plant efficiency through reduced downtime



Universally resistant

Rotors from ceramic material are ideal for applications where chemically aggressive or highly abrasive products need to be conveyed.

Aside from the physical properties, the NEMO CERATEC® is also convincing from a chemical aspect. In contrast to metals, universal resistance to corrosion over the entire pH-range is guaranteed. This means the rotor reacts with neither acids nor alkali solutions.

The extreme increase in the service life of the NEMO CERATEC® has been verified through many applications. The NEMO CERATEC® has proved itself in practice. Even after operation more than 10 times longer, this rotor displayed no signs of wear whatsoever and is still operational.

As the CERATEC® rotor surface remains smooth also the stators have an increase of significantly higher in the operational lifetimes.

Quieter operation and reduced wear

An additional plus of ceramic compared to metals is the lower density, which lowers the weight of a rotor by 50%. This reduces the load on the joints and leads to quieter operation. All these physical advantages of the NEMO CERATEC® allow higher speeds, which is equivalent to an increase the hydraulic power.

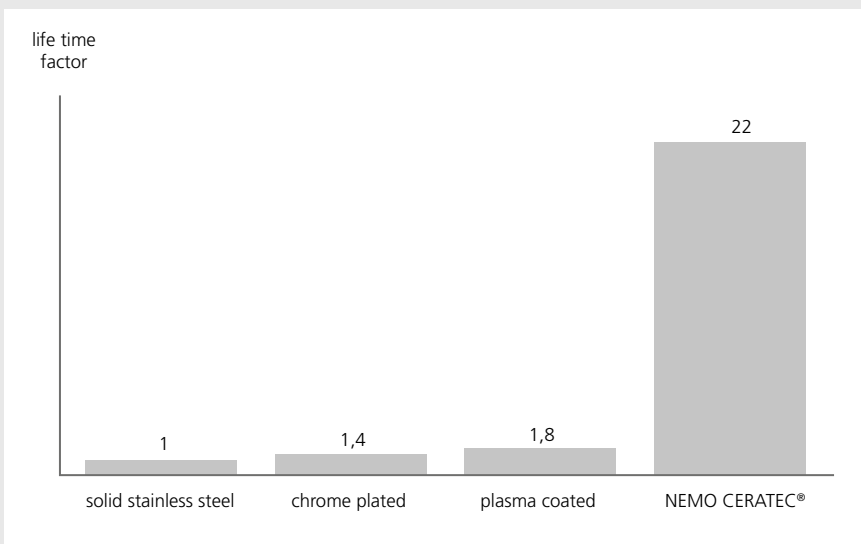
Reliable a whole life long

Ceramic rotors are guaranteed to be economical. The mechanical wearing properties of the NEMO CERATEC® combine with an extremely high resistance to chemical and physical wear. Thereby the possible applications for progressing cavity pumps are significantly increased.

Reduced maintenance requirements

A result of the considerable reduction in maintenance requirements, the long service life of the machines, which until now has not been achievable, has naturally had a positive effect on operating and maintenance costs. The operation of plants and pumps is more reliable, down time and maintenance time are minimized.

Comparison of the life times* (stainless steel rotor as the basis)



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The NETZSCH Business Unit Pumps & Systems offers NEMO® progressing cavity pumps, TORNADO® rotary lobe pumps, screw pumps, macerators/grinders, dosing systems and equipment custom built and challenging solutions for different applications on a global base.

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