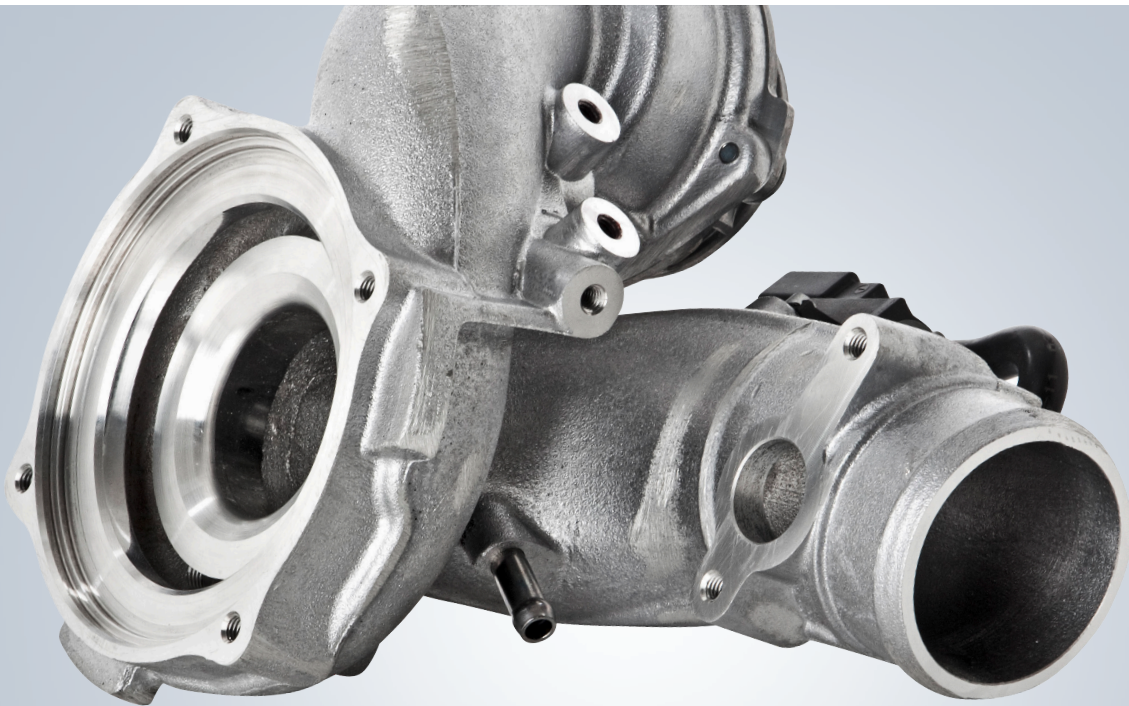




# MIRATEC™ TC Technology

For the best performance in turbocharger casting



**ASK**CHEMICALS



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For the best performance in turbocharger casting

Compliance with stricter CO<sub>2</sub> limits is leading to a rethink of drive concepts on the one hand, and on the other to the further development of conventional drive technology, such as, for example, downsizing engines, combined with more powerful turbochargers. Iron is increasingly being alloyed for the production of turbo-chargers, and is being modified towards steel grade properties, especially to withstand the higher exhaust gas temperatures.

MIRATEC™ TC technology has been specially developed for use in cast steel and is free of zirconium, unlike standard coatings for cast steel.

## Benefits for efficiency & technology

- Good suspension properties in the dip tank
- Short handling and drying times
- Excellent thermostability
- Reduction of casting defects
- High surface quality
- Independence from zirconium prices

## Benefits for the environment & workplace

- Powerful water-based coating
- No use of zirconium

## Optimized for turbocharger casting

MIRATEC™ TC coatings have been developed for use in cold box, epoxy SO<sub>2</sub>, hot box and in Croning production. The rapid removal of air during the casting process has a favorable effect where the prevention of gas defects is necessary. Grain structure and sintering behavior of the coating solids counteract the tendency to mineralization. A penetration inhibitor stops water migration into the core surface, resulting in faster evaporation and a relatively short furnace time.