MANUFACTURE OF CAST SALT CORES IN LOW-PRESSURE GRAVITY DIE CASTING

Cast salt cores enable the manufacture of high-pressure die cast components with integrated complexly shaped hollow spaces. Thus, hollow spaces such as cooling channels or structural lightweight construction can be realized.

Properties and possibilities
Salt cores produced in low-pressure gravity die casting are characterized by the following:

- High reproduction accuracy and high size accuracy
- Very good, smooth, dense surfaces
- High mechanical and thermal stability
- Simple and reliable residue-free removal from the component

The following advantages are offered:
- Significantly lower invest (compared to high-pressure die casting and periphery)
- High casting quality due to laminar form filling and high process stability
- No corrosion problems due to capsulated furnace chamber

Our Services
- Development of gravity dies for cast salt cores, including casting process development
- Manufacture of small and pre-series salt cores in low-pressure die casting
- Tailored salt mixes for improved casting technological properties
- Supply chain for salt cores, storage suitability / storage conditions
- Characterization of salt mixes (e.g., casting properties) and salt cores (e.g., micro-structures, strength)
- Capture of thermophysical data for casting simulation

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