



RM10Co

Premium tool steel for tooling components
and barrel housings in Thixomolding

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Kind&Co. provides premium tool steels and material solutions for semi-solid processing of magnesium alloys in Thixomolding

RM10Co – Key benefits

- Superb hot wear resistance
- Hardness up to 50 HRC
- Excellent tempering resistance
- Outstanding high-temperature strength
- Large dimensions up to 380 mm finish sizes
- Delivery of finished machined barrel housings with tight tolerances and advanced material properties for the plastification unit
- Steel, heat treatment, precision machining in the same plant and responsibility
- Increased service life and economy



Melting ESR-Remelting



Forging



Hardening Annealing



Stocking and sawing



Machining



Vacuum hardening Nitriding/annealing

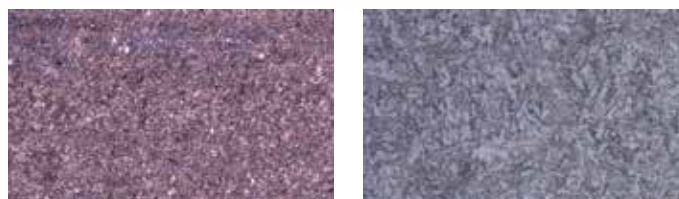


Thixomolding - Creating lighter, thinner and stronger products

Thixomolding is an attractive solution to cast durable, light-weight near net shape products of superior material properties. Larger machines with growing capacities have been opening the process for larger light weight components in urban mobility or data processing units.

Tools and components in the plastification unit of thixomolding processes have to face constant high temperature impacts for long time to support the advantages of the thixotropic flow characteristics.

- RM10Co offers excellent tempering resistance to prevent softening of the barrel housing unit.
- RM10Co owns outstanding high-temperature strength to withstand thermal fatigue and can minimize erosion and wash out effects inside the bore of the barrel housing.
- RM10Co provides superb hot wear resistance to withstand the abrasive wear caused by the friction of Mg-particles.
- RM10Co is supplied ESR remelted with superb cleanliness, an excellent homogeneity, fine grain size for outstanding material properties.



Uniform microstructure- examples RM10Co dia 400 mm ▲

Our product and technical experience reflect the requirements of increasing service life for semi-solid processes to produce components with thinner walls and higher precision.

Production processes

Melting

Forging

Heat treatment

Mechanical processing

Vacuum hardening

Surface treatment

Products

Hot-work tool steels

Cold-work tool steels

Die forging steels

Plastic mould steels

Industries

Die casting

Extrusion

Die forging

Pipe technology

Plastics technology

Hot-stamping

Special applications

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