

Fluoride-free spot feeders protect the environment and reduce working time



SUSTAINABILITY

THE CHALLENGE

In times of decreasing resources and stricter environmental aspects, the options for disposal of used sand and the associated costs play a key role. We have taken up this challenge and developed FEEDEX* FEF, a highly exothermic fluoride emission free sleeve formulation which can be used for all common sleeve types and compaction processes.

FOUNDRY:

GF Casting Solutions
Leipzig GmbH



GF Casting Solutions Leipzig GmbH produces highly complex castings for a wide range of market segments such as commercial vehicles, agricultural machinery, or the energy sector on a high-pressure moulding line with Europe's largest moulding box. In addition to the customer requirements, the topics of environment and work safety have a top priority.

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PARAMETERS

Alloy:	EN GJS 500-14
Casting weight:	246 kg
Pouring temp.:	1400 °C
Pouring weight:	349 kg
Yield:	70.6 %
Pouring time:	16 s
Moulding process:	Bentonite bonded sand

FOSECO PRODUCTS

6x FEEDEX* FEF VAK 339 F1/0160 M
1x FEEDEX FEF VS 770/37 MH
1x SEDEX* 100x150x22/10 ppi



OUR SOLUTION

The use of our new FEEDEX FEF formulation in combination with VAK technology.

Product portfolio FEEDEX FEF VAK



KEY BENEFITS

- Reduction of disposal costs for used sand
- Minimum contact area
- Reduction of fettling costs

> LET'S LEARN MORE 

THE OUTCOME

By using the FEEDEX FEF formulation, the water-soluble fluoride content in the used sand is minimised whilst lower VOC emissions improve the working environment. When applied using VAK spot feed technology, significant savings in the time and work required for fettling and grinding the finished castings can also be achieved.

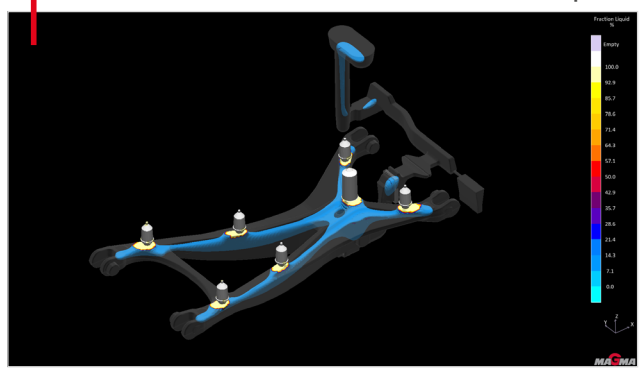
	Sleeve Condition	Water leachable fluoride [mg/l]
FEEDEX HD1	Not burned	50
	Burned	15
FEEDEX FEF	Not burned	1.2
	Burned	1.1

Comparison of FEEDEX HD1 and FEF formulation in terms of water-leachable fluoride

Suspension swing arm in use



Solidification simulation – Fraction Liquid



THINK BEYOND. SHAPE THE FUTURE.



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