



SIMPLE, FAST, EFFICIENT

## NODULANT\*

TABLETS FOR THE PRODUCTION OF DUCTILE IRON USING THE SANDWICH PROCESS

Increased melting and treatment flexibility

Reduced scrap from dross and pinholes

Increased furnace life

No chunky-type graphite

Lower magnesium fade rate

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Tablets for the production of ductile iron using the sandwich process

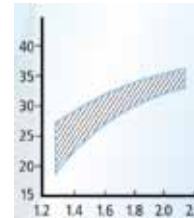
NODULANT tablets consist of pure magnesium and pure iron, plus calcium to moderate the magnesium reaction. A range of products containing up to 10% magnesium is manufactured, and some also include rare earths. NODULANT tablets contain only 2 to 5 % silicon.

## Advantages of NODULANT tablets

- Increased melting flexibility  
The low silicon content of NODULANT tablets maximise re-melting returns and simplify silicon control.
- Increased treatment flexibility  
NODULANT tablets allow variations in base sulphur and temperatures without fear of excess silicon. Ductile iron can be produced directly from a high sulphur base iron.
- Reduced scrap due to dross  
NODULANT tablets provide cleaner metal and lower scrap rates due to dross.
- Reduced scrap due to pinholes  
NODULANT tablets contain no aluminium and do not provoke hydrogen pinholes.

- No chunky-type graphite  
NODULANT tablets reduce the tendency to create chunky graphite in heavy sections.

- Increased furnace life  
Melting higher silicon irons decreases refractory attack of acid linings in electric furnaces and increases lining life by up to 50%.



## Magnesium recovery using NODULANT tablets

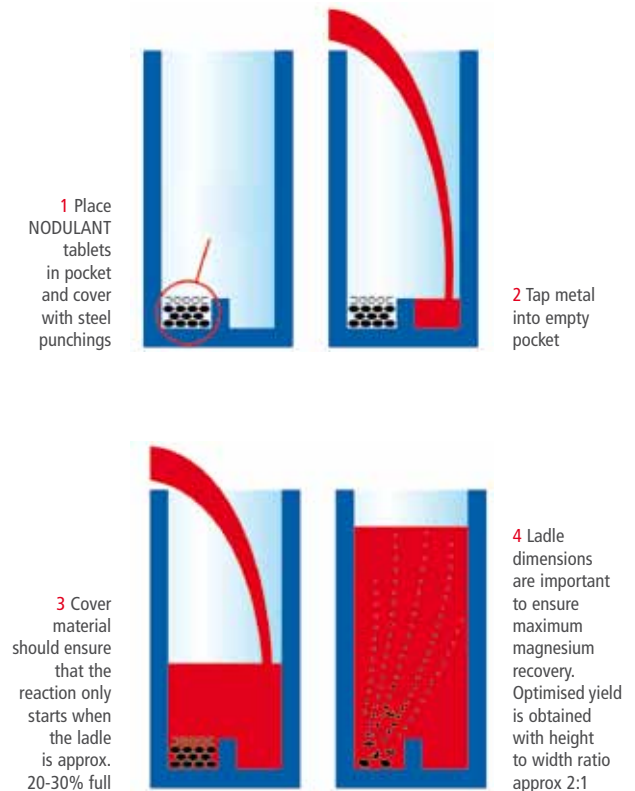
Typical recoveries using NODULANT tablets range from 35 to 45%. In ideal cases recoveries range from 50 to 65%. The recovery strongly depends on ladle geometry and other foundry conditions.

## Cover material for NODULANT tablets

Small compact steel punchings or machining chips are recommended.

## Inoculation and NODULANT tablets

Inoculation practice is the same as for other common treatment processes.



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