



ENHANCED MANGANESE

Resources Unity develops, designs, manufactures and supplies the wear parts and mechanical spares of the mining machinery. It has introduced Enhanced Manganese upgrades generic manganese casting technology. These are durable enough and meet the standard of the casting industry, which has been planning to offer for decades.

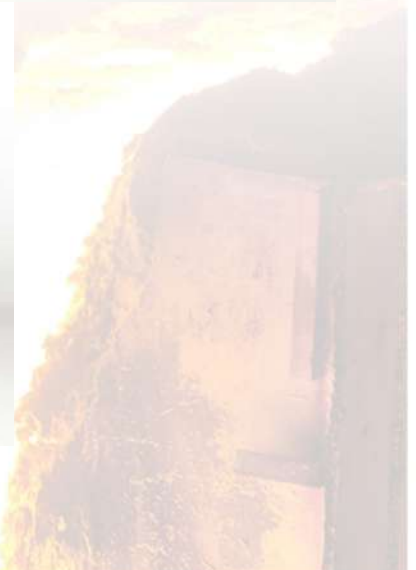
Basically, the Enhanced Manganese series casting is a pre-hardened manganese casting technology for minimizing the sacrificial wear of the standard manganese product. This enhanced Manganese product enhances the life minimum by 50% on the top-of-the-market premium item at a minimal cost penalty. In comparison to the other hard-faced mechanical welded technology that has proved inefficient, the pre-hardened technology is quite novel.

RU has various Enhanced Manganese grades to offer, namely: **EMN1, EMN2, EMNX** and Enhanced Mn Durable category as custom casting for special application.

For customers having complex requirements, the Enhanced Manganese has a lot to offer. RU is capable enough to reverse-engineer a wear material that suits the particular usage requirement. The company does so by incorporating research and development initiatives for wear materials into the manufacturing practice.

Benefits:

- Universally applicable in every manganese casting
- No concerns regarding reliability due to same profile used
- Change is not required for the current machine' s operational procedure
- No alteration is required in product profiling
- Reduction in Operational Budget
- Greater extension of the life of the product
- Low cost of the product
- Tangible gains in a short time frame
- Traceable improvement plans
- Accessible product target
- Great for complex manganese casting
- Improved wear product performance KPIs
- Great production target





Enhanced Manganese Technology means a customized wear material technology that targets a set of complications for a specific project. The elements that are involved in the customization involve mainly:

- Mechanical property of processed ore
- Casting mechanical property
- Standardized production technology for producing projects required quantity
- Production of trial products
- Align casting with specific processed ore characteristics
- Re-align cost and data with the initial target of the client
- Destruct casting for extracting test data
- Design casting technology for production

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