

## QUALITY AND ADVANTAGES OF FERROSAD

Metalltechnik is producing low carbon steel shot **FERROSAD** since more than 40 years. It has several advantages against the standard high carbon steel shot.

Regarding the quality we want to point out that our low carbon steel shot **FERROSAD** has a much higher life time than any high carbon steel shot. The advantages of **FERROSAD** are attributable to its chemical composition and superior performance.

High carbon steel shot ( approx. 1% carbon) is produced by atomizing molten high carbon steel into a water bath. The drastic quenching causes quench cracks to the steel balls and a very high hardness which is not suitable for the blasting work. So it is necessary to make a further heat treatment with this steel shots though it should be noted that the cracks will be extended by that.

Cracks in the shot cause premature bursting of the grains which increases the fine particles in the operation mix. The air washer is shut down to a minimum to prevent removal of this fine parts . This will lead to extra dust within the machine which results in a higher wear of machine parts.

**FERROSAD** low carbon steel shot has completely different wear characteristic. The low carbon and the high manganese content result in a structure which is called bainite which is known for its tough and durable properties.

**FERROSAD** steel shot does not need any further heat treatment after atomizing. The chemical composition and the atomizing process ensure that **FERROSAD** steel shot is free from quench cracks, shrinkage cavities and slag inclusions. The high manganese content guarantees a high wear resistant product of the correct hardness with a long service life.

Please note: **FERROSAD last longer than high carbon steel shot!**  
**FERROSAD will reduce the cost of consumption!**  
**FERROSAD will reduce the wear part costs of the blasting machines!**  
**FERROSAD will reduce the maintenance cost for the blasting machine!**  
**FERROSAD will produce less dust!**  
**FERROSAD will reduce the dust disposal costs!**

This information should be a reason to think about the relation between the prices of steel shot and the overall costs for steel shot and shot blasting per year. Even if the price of **FERROSAD** is higher than that of the competitor you will realise that you can save money by using **FERROSAD**.

To find out that the promised benefits will occur it is necessary to make a trial with our shot only. Then you will see the results in practice in your special application.

We hope that the information will assist you to make a decision in favour of a trial with our premium low carbon steel shot **FERROSAD**.