



SWEBOR STÅL







## Steel profiles

### Types of steel

The heat treated boron steel from Swebor Stål is a carbon manganese grade with chromium. The addition of boron gives the steel an ability to harden equivalent to higher alloy steel. The boron gives the steel its unique combination of hardness, strength and weld ability after heat treating.

Thanks to its unique qualities boron steel can be used both for its wear resistance and in designs requiring strong, light-weight materials. Compared to other heat treatment steels boron steel has better strength relative to hardness, and very high fatigue strength and wear resistance.

Many years of research work has provided boron steel with properties such as high wear resistance, good weld ability and good bending characteristics – even after heat treating. The weld ability is a result of the chemical structure of boron steel.

Boron steel comes in different qualities and for different purposes, depending on the demands and properties that are required within 360–550 HB.



### Field of application

Heat treated boron steel from Swebor Stål is used in the mining industry, the mechanical engineering industry, transport industry and the construction machinery branch. It is also used for truck bodies, railway carriages, buckets and cement mixers. In the mining industry it is used for wear plates, skips, chutes and crushers, etc.

By choosing heat treated steel thinner dimensions can be used for truck bodies and construction details on trucks resulting in increased stability, decreased weight and improved loading capacity. Similar things can be said about railway carriages in terms of wear resistance and sustainability, which is of great importance.

### Niche companies on the global market

Swebor Stål has representation in several countries. The products are marketed and sold in Europe, the US, Canada, China, Australia and South America.

Because of the unique qualities of the boron steel the interest and the demand is constantly increasing. With flexible manufacturing and working methods the company is able to meet and satisfy market requirements from around the world for heat treated steels.

New products and qualities are being developed in collaboration with clients and contractors in order to meet market requirements.

