



Adamite Steel Base

Field of Application

Mill Type	Position
Hot Strip Mill	Edger

Mechanical properties

Hardness Range	40-55 ShC
Tensile Strength	> 500 MPa
Bending Strength	> 900 MPa
Young's Modulus	approx. 200.000 MPa

Adamite steel base rolls are classified as high carbon alloy steel rolls, with a carbon content ranging from 1.4% to 2.1%, along with specific alloy additions. The microstructure consists of a pearlitic matrix and a discontinuous hypoeutectic carbide phase, along with secondary carbides, which are generated through a specialized heat treatment process.

The presence of semi-continuous hypereutectic carbides within the microstructure significantly enhances wear resistance.

When subjected to the appropriate heat treatment, these rolls achieve an optimal hardness and strength throughout the material's depth, making them particularly ideal for deep, heavy sections.

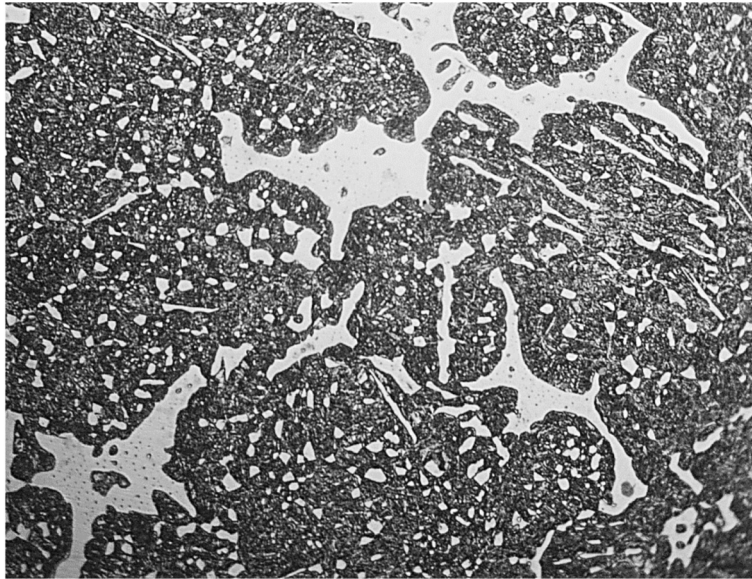
Product Highlights

- Spall resistant
- High Strength
- Uniform Hardness

Chemical Composition:

	C	Mn	Si	P	S	Ni	Cr	Mo
Min	1.40	0.40	0.30	0	0	0.30	0.70	0.20
Max	2.10	1.00	1.00	0.10	0.050	1.60	1.80	0.80

Microstructure:



400 X – etched

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