

PRODUCT DATASHEET



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BISALLOY® Wear 550 Steel

BISALLOY® Wear 550 steel is a through-hardened, abrasion-resistant steel plate. While being a wear plate, BISALLOY® Wear 550 steel offers the optimum combination of hardness, impact resistance and formability for wear applications requiring extensive forming/drilling or fabrication in abrasive applications.

Application

With a nominal hardness of 550 HBW, BISALLOY® Wear 550 steel is an ideal choice for applications that require a balance of hardness and toughness, including:

- Deflector plates
- Demolition tools
- Rippers and lifting tynes
- Chutes
- Storage bins
- Dump truck liners
- Civil and earthmoving bucket

Mechanical Properties

| Properties | Specification | Typical |
|---|---------------|-----------|
| 0.2% Proof Stress | - | 1,400 MPa |
| Tensile Strength | - | 1850 MPa |
| Elongation in 50mm G.L. | - | 8% |
| Charpy Impact (Longitudinal) -40°C (10MM x 10mm) | - | 16J |
| Hardness | 530-570 HB | 550 HB |

Chemical Composition

| Thickness (mm) | Weight % | C | P | Mn | Si | S | Ni | Cr | Mo | B | CE(IIW)* | CET* |
|----------------|----------|------|-------|------|------|-------|------|------|------|-------|----------|-------|
| 8 – 50 | Maximum | 0.38 | 0.020 | 0.50 | 0.35 | 0.005 | 1.00 | 1.20 | 0.30 | 0.002 | 0.68* | 0.46* |

*Typical average

PLEASE NOTE: Every care has been taken to ensure the accuracy of information contained in this manual which supersedes earlier publications, however Bisalloy Steels shall not be liable for any loss or damage whatsoever caused from the application of such information. Typical values are provided for reference information only and no guarantee is given that a specific plate will provide these properties. Information is subject to change without notice. **Published July 2024**