

BISALLOY® PROTECTION 550 STEEL

Introduction

BISALLOY® PROTECTION 550 steel is a low alloyed blast protection steel featuring low carbon and low manganese content in combination with a carefully controlled production process, BISALLOY® PROTECTION 550 steel is a good combination of hardness, strength, fabrication and ballistic protection suitable for applications such as armoured vehicles, infrastructure protection and valuables transportation.

Brinell hardness

Thickness (mm)	Specification	Typical
2.5 - 16 ¹	530 - 570 HB	580 HB

Mechanical properties

Property	Typical
0.2% Proof Stress	1400 MPa
Tensile Strength	1800 MPa
Elongation in 50 mm G.L.	8%
Charpy Impact (Longitudinal) - 40°C (10x10mm)	14 J

Thickness tolerance

Thickness	Tolerance ²
2.5 - 16mm	-0.0 + 1.0

Test frequency

Per Plate	By Agreement
Hardness	Charpy (L), Charpy (T) Thickness, Tensile, Ballistic Properties, Product Analysis

Fabrication

For advice on fabrication refer to relevant Bisalloy technical brochures.

Contact Bisalloy direct or visit www.bisalloy.com.au

* Typical for 12mm plate

¹ Other thicknesses may be available on application

² Tighter tolerance available by agreement

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 August 2020**