

BISALLOY® PROTECTION 600 STEEL

Introduction

BISALLOY® PROTECTION 600 steel is a quenched and tempered steel plate which offers a very high degree of hardness making it suitable for ballistic resistance. This high hardness product is best suited to applications where protection from specific threats are required – please contact Bisalloy for further discussion.

Brinell hardness

Thickness (mm)	Specification	Typical
2.5 - 16 ¹	570-640 HB	600 HB

Mechanical properties

Property	Typical
0.2% Proof Stress	1500 MPa
Tensile Strength	2050 MPa
Elongation in 50 mm GL	7%
Charpy Impact (Longitudinal) - 40°C (10x10mm)	10 J

Thickness tolerance

Thickness (mm)	Tolerance ³
2.5 - 16	-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 For plate thickness under 12mm subsize charpy V-specimens are used. The specified minimum value is then proportional to the specimen cross-section.

³ 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**