

BISALLOY® PROTECTION 400 STEEL

Introduction

BISALLOY® PROTECTION 400 steel is a quenched and tempered steel plate, possessing very good weldability, suitable for use in applications where high rates of shock loading and resistance to penetration by ballistic projectiles are required.

Brinell hardness

Thickness (mm)	Specification	Typical
5 - 50 ¹	370-430 HB	400 HB

Mechanical properties

Property	Typical
0.2% Proof Stress	1080 MPa
Tensile Strength	1250 MPa
Elongation in 50 mm GL	14%
Charpy Impact (Longitudinal) - 40°C (10x10mm)	35 J

Thickness tolerance

Thickness (mm)	Tolerance ²
5 - 25	-0.0 + 1.0
>25 - 50	-0.0 + 1.2

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**