

## BISALLOY® PROTECTION 250 STEEL

### Introduction

BISALLOY® PROTECTION 250 Steel is a quenched and tempered steel plate which offers unique blast resistance properties with excellent mechanical properties, without comprising weldability and formability. Applications include blast protection for vehicles, property and infrastructure protection.

### Brinell hardness

Thickness (mm)	Specification	Typical
5 - 50 <sup>1</sup>	230 - 290	255 HB

### Tensile properties

Property	Typical
0.2% Proof Stress	750 MPa
Tensile Strength	830 MPa
Elongation in 50 mm GL	20%

### Charpy impact values

Thickness (mm)	Test Piece	Test Temp	Min. Energy (Longitudinal)
5 - 50	10 x 10	-40°C	40J

### Thickness tolerance

Thickness (mm)	Tolerance <sup>2</sup>
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](http://www.bisalloy.com.au)

<sup>1</sup> Other thicknesses may be available on application

<sup>2</sup> 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**