# PRODUCT **DATA SHEET**



## **BISALLOY® STRUCTURAL 60 STEEL**

#### Introduction

BISALLOY® STRUCTURAL 60 steel is a low carbon, low alloy, high strength structural steel exhibiting excellent cold formability and low temperature fracture toughness.

### **Applications**

BISALLOY® STRUCTURAL 60 steels offers excellent mechanical properties combined with ease of fabrication, delivering economic advantages in many structural applications including:

- Storage Tanks for Water, Oil and Gas
- Columns for Low and High Rise Buildings
- Transfer Beams for Low and High Rise Buildings
- Mobile Lifting Equipment
- Overhead Cranes

BISALLOY® STRUCTURAL 60 steel is manufactured in accordance with AS/NZS 3597 Grade 500.

#### Mechanical properties

Hardness (Typical)		Tensile				Charpy V-Notch Impact			
Plate Thickness (mm)	Brinell Hardness (HB 3000/10)	Plate Thick- ness (mm)	0.2% Proof Stress (MPa) Min	Tensile Strength (MPa)	% Elongation (50 mm G.L) Min	Plate Thickness (mm)	Energy (J) (Min)	Test Temp. (°C)	Test Directions
5 - 100	210	5 - 100	500	590 - 730	20	5	By Agmnt	-40	L
						6 - <8.5	45	-40	L
						8.5 - <12	60	-40	L
						12 - 65	80	-40	L
						70 - 100	80	-20	L

### Chemical composition

Thickness (mm)	Weight %	С	Р	Mn	Si	S	Cr	Мо	В	CE(IIW)*	CET*
5 - <30	Maximum	0.18	0.025	1.2	0.60	0.008	1.00	0.25	0.002	0.44	0.26
≥30 - 80	Maximum	0.18	0.025	1.3	0.60	0.008	1.00	0.25	0.002	0.54	0.32
>80 - 100	Maximum	0.18	0.025	1.5	0.60	0.008	1.20	0.25	0.002	0.58	0.34

<sup>\*</sup>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 August 2020** 



