

# ATLAS BALL & BEARING CO. LIMITED

## S2 TOOL STEEL ROLLER DATA SHEET

**Attributes** S2 tool steel is designed to achieve extreme ruggedness. Rollers produced from this material provide the toughness and strength necessary for severe shock loads.

**Specification with equivalents** AISI S2  
ASTM-A681  
UNS T-41902

### Chemical Analysis %

C	0.45-0.55	S	0.30 max
Mn	0.30-0.60	Cr	0.25 max
P	0.30 max	V	0.50 max
Si	0.90-1.25	Mo	0.30-0.50

**Typical uses/applications** Oilfield equipment and offshore drilling operations.

**Grades available** G100, G200

### Mechanical/physical properties

Hardness	HRC 54-58, 577-653 Hv
Tensile strength	2130 Mpa
Yield strength	2000 Mpa
Specific gravity (Density)	7.849 g/cm <sup>3</sup> (0.283 lb/in <sup>3</sup> )

Whilst every care has been taken we cannot accept liability for any errors contained within this data sheet.

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