

ATLAS BALL & BEARING CO LIMITED

RENE 41® BALL DATA SHEET

Attributes An age hardenable nickel base alloy with very high strength at elevated temperatures

Specification with equivalents Rene 41
Haynes R-41
Pyromet 41
Udimet R41
UNS N07041
DIN 2.4973

Chemical Analysis %

C	0.12 max	Mn	0.10 max
Si	0.50 max	S	0.015 max
Cr	18.00-20.00	Co	10.00-12.00
Mo	9.00-10.50	Ti	3.00-3.30
Al	1.40-1.60	B	0.003-0.01
Fe	5.00 max	Ni	Bal

Typical uses/applications Parts used in high temperature applications needing high strength

Mechanical/physical properties

Hardness	490-610 Hv (est)
Tensile strength	1600-2000 Mpa
Specific gravity (density)	8.25 g/cm ³ (0.298 lb/in ³)
Melting point	1345° C
Coefficient of Expansion	13.6µm/m·°C (20-100°C)
Modulus of rigidity	83.2kN/mm ²
Modulus of elasticity	218 kN/mm ²

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