MATERIAL DATA SHEET · HEAVY HEX NUTS

ASTM A194 2HM

Chemical composition and mechanical properties

ASTM A194 2HM is an ASTM specification for heavy hex nuts (UNS K04002). This sheet summarises its chemical composition limits and minimum mechanical properties. Typical use: sour-service nuts for A193 B7M studs.

Chemical composition (weight %)

C	Mn	P max	S max	Si	Cr	Ni	Mo
0.40 min	1.00 max	0.040	0.050	0.40 max	—	—	—

Mechanical properties

Proof load stress	1035 MPa (150 ksi), heavy hex
Hardness	159–235 HBW (84–99 HRB)

Heat treatment

Quenched & tempered, 620 °C min temper

Typical service

Sour-service nuts for A193 B7M studs

Supplied by Teshi Group in this grade

Fasteners (OEM manufacturer)

Composition limits are maxima unless a range is shown. Properties are specification minima for the standard product form and may vary with section size and edition of the specification.

Reference information compiled from the published standard for convenience. It does not replace the current edition of the governing standard, which takes precedence. Verify critical dimensions and properties before design, purchase or fabrication. Teshi Engineers & Sales Promoters (P) Ltd accepts no liability for errors or omissions.

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