

MATERIAL TEST CERTIFICATE

STANDARD REFERENCE DOCUMENT — ALLEN BOLT (HEX SOCKET HEAD CAP SCREW)

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PRODUCT INFORMATION

Product Name	CANCO Allen Bolt (Hex Socket Head Cap Screw)	Product Type	High-strength threaded fastener with cylindrical socket head and internal hex drive
Material Options	Alloy Steel; Carbon Steel; Stainless Steel AISI 304 / 316	Size Range	Metric M3 to M64 and inch sizes; various lengths
Surface Finish	Black Oxide; Zinc Plated; Hot-Dip Galvanised; Plain / Self Finish	Standards	ISO 4762; DIN 912; ASTM / ASME standards
Manufacturing	Cold forging / hot forging; thread rolling; heat treatment for high tensile grades; surface finishing	Supply	OEM supply, industrial distribution and export requirements

PRODUCT IDENTIFICATION



Construction: Cylindrical head with internal hex socket, designed for precision tightening using an Allen key.

Function: Internal hex drive enables secure tightening where compact installation and high torque are required.

Typical applications: Machinery assembly, automotive components, industrial equipment, construction and fabrication.

Customisation: Custom dimensions and threading, material grade changes, special coatings, private labelling and packaging.

MATERIAL / COMPONENT SPECIFICATION

Component	Material / Specification	Inspection / Requirement
Bolt body	Alloy Steel; Carbon Steel; Stainless Steel 304 / 316	Material verification
Head	Cylindrical socket head / hex socket head	Dimensional inspection
Drive	Internal Hex (Allen Key)	Socket dimension inspection
Thread	External threaded shank; metric or inch sizes	Thread gauge testing

REFERENCE SPECIFICATION

Parameter	Reference Value	Qualification
Size range	Metric M3 to M64 and inch sizes	Actual size as per approved order / drawing
Material grades	Alloy Steel Grade 8.8 / 10.9 / 12.9; Stainless Steel 304 / 316	Grade as specified
Surface finishes	Black oxide; zinc plated; hot-dip galvanised; plain / self finish	Finish as specified
Dimensional control	Strict dimensional tolerances	International standards or approved drawings

TESTING / INSPECTION REQUIREMENTS

Inspection Item	Requirement	Status
Dimensional inspection	Verify specified dimensions and tolerances against applicable standard or approved drawing	REQUIRED
Thread gauge testing	Verify thread form and dimensional conformity	REQUIRED
Hardness testing	Verify hardness for applicable high-tensile grades	REQUIRED
Surface inspection	Visual inspection of finish and surface condition	REQUIRED

INSTALLATION / APPLICATION REQUIREMENTS

Item	Requirement	Status
Allen key selection	Use the appropriate Allen key size for the internal hex socket	Required
Tightening	Apply recommended torque for secure fastening without damaging the socket	Required
Application	Suitable for machinery, automotive, industrial equipment, construction and fabrication	Specified

STORAGE / PACKAGING

Item	Available Configuration	Status
Packaging	Box packing; bulk cartons; palletized shipments; custom export packaging	AVAILABLE
Export	Palletized and custom export packaging	AVAILABLE
Supply	OEM supply, distributors and bulk export orders	AVAILABLE

MANUFACTURER'S DECLARATION

Declaration — This standard reference MTC identifies the CANCO Allen Bolt (Hex Socket Head Cap Screw) and summarizes the product, materials, finishes, manufacturing process, dimensional control, testing, inspection, installation, packaging and supply information stated in the supplied Allen Bolt Technical Specification. Actual batch-specific material grade, dimensions, finish, traceability and test results shall be reported against the confirmed customer order and applicable batch documentation.

For CANCO Fasteners

Authorized Signatory

REFERENCE NOTICE

The supplied specification identifies Allen Bolts as high-tensile fasteners with cylindrical heads and internal hex sockets; materials include alloy steel, carbon steel and stainless steel AISI 304 / 316; sizes range from M3 to M64 and inch sizes; standards include ISO 4762 and DIN 912; manufacturing includes forging, thread rolling, heat treatment for high tensile grades and surface finishing; inspection includes dimensional inspection, thread gauge testing, hardness testing and surface inspection. Typical applications include machinery assembly, automotive components, industrial equipment, construction and fabrication.

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