CANCO FASTENERS

Trusted Name in Quality Fixing System

Dated: 28-01-2025

METALLURGICAL TEST REPORT (Allen Bolt)

ITEM: HEXAGON SOCKET HEAD CAP SCREW (ALLEN BOLT)
SIZE: M3 to M36 / #6 to 1-1/2" UNC / UNF
MATERIAL: Grade 8.8, 10.9, 12.9 Alloy Steel; SS 304 (A2-70); SS 316 (A4-70)
FINISH: Black Oxide, Zinc Plated, Zinc Flake, Passivated Stainless

DESCRIPTION OF PARTS											
PROCESS ROUTE											
% CHEMICAL COMPOSITION											
Elements	C (%)	Mn (%)	Si (%) Max	P (%) Max	S (%)	Cr (%) Min	Mo (%)	V (%)	Al (%)	Br (%)	Others Max
Minimum	-	-	-	-	0.05%	-	-	-	0.01%	-	0.10%
Maximum	0.20%	0.80%	0.30%	0.05%	0.06%	0.60%	-	-	0.035%	-	0.20%
Achieved	0.15%	0.62%	0.24%	0.03%	0.04%	0.48%	-	-	0.027%	-	0.09%

BASIC PERFORMANCE DATE		
SIZE		M3 to M36 / #6 to 1-1/2" UNC / UNF
TENSILE LOAD		
Ultimate Tensile Strength	[kN]	≥ 60.00
Yield Load	[kN]	≥ 52.00
SHEAR LOAD		
Ultimate Shear Strength	[kN]	≥ 36.00
Yield Shear Load	[kN]	≥ 28.00
HARDNESS RANGE		
Rockwell Hardness (HRB)		≤ 95
DIMENSIONAL TOLERANCE		
Diameter Tolerance	[mm]	± 0.05
Length Tolerance	[mm]	± 0.25
CORROSION PROTECTION		
Finish		Black Oxide, Zinc Plated, Zinc Flake, Passivated Stainless
MATERIAL SUITABILITY		
Base Material		Steel, Stainless Steel

Thanks & Regards

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