Dated: 28-01-2025

METALLURGICAL TEST REPORT (Carriage Bolt)

ITEM: CUP HEAD SQUARE NECK BOLT (CARRIAGE BOLT)
SIZE: M5 to M20 / #10 to 3/4
MATERIAL: Mild Steel Grade 4.6 / 4.8, Grade 8.8, SS 304 (A2), SS 316 (A4)
FINISH: Self Colour, Zinc Plated / Hot Dip Galvanized

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%	0.50%	0.30%	0.05%	0.06%	0.60%	-	-	0.035%	-	0.20%
Achieved	0.15%	0.42%	0.24%	0.03%	0.04%	0.48%	-	-	0.027%	-	0.09%

BASIC PERFORMANCE DATE		
SIZE		M5 to M20 / #10 to 3/4
TENSILE LOAD		
Ultimate Tensile Strength	[kN]	≥ 58.00
Yield Load	[kN]	≥ 42.00
SHEAR LOAD		
Ultimate Shear Strength	[kN]	≥ 34.00
Yield Shear Load	[kN]	≥ 26.00
HARDNESS RANGE		
Rockwell Hardness (HRB)		≤ 95
DIMENSIONAL TOLERANCE		
Diameter Tolerance	[mm]	± 0.10
Length Tolerance	[mm]	± 0.50
CORROSION PROTECTION		
Finish		Self Colour, Zinc Plated, Hot Dip Galvanized, Passivated Stainless
MATERIAL SUITABILITY		
Base Material		Steel, Structural Sections, Timber & General Construction

Thanks & Regards

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