



SA 563 covers chemical and mechanical requirements for eight grades of carbon and alloy steel nuts for general structural and mechanical uses on bolts, studs and other externally threaded parts. Grades C3 and DH3 nuts have atmospheric corrosion resistence and weathering characteristics. The atmospheric corrosion resistence of these steels is substantially better than that of carbon steel with or without copper addition. When properly exposed to the atmosphere, these steels can be used bare(uncoated) for many applications.

Chemical Properties

С	Mn	P	S	Si	Cr	Ni	Cu	٧
0.14-0.26	0.76-1.39	0.040 Max	0.045 Max	0.23-0.37	0.27-0.53	0.22-0.53	0.17-0.53	0.010 Min

Mechanical Properties Nuts with UNC, 8 UN, 6 UN and Coarser Pitch Threads Proof Load Stress, ksi(A) Hardness

	1/4 to 4		
TYPE	Non-Zinc Coated	Zinc Coated	
HEAVY HEX	144	144	

BHN	HRB	HRC
143-352	78 Min	38 Max

Heat Treatment

Equivalent Designation

UNS
EN number
EN Name
W.Nr.
SS
AFNOR



CUSTOMER ASSISTANCE : customer@TorqBolt.com