

ASTM A563 Nut Compatibility Chart

Grade of Bolt	Surface Finish	Nominal Size Inches	A563 Grade and ANSI Nut Style			
			Recommended		Suitable	
			Hex	Heavy Hex	Hex	Heavy Hex
A307 Grade A & C	Any	¼ to 1½	A		B,D,DH	A,B,C,D,DH,DH3
		>1½ to 2		A	A	C,D,DH,DH3
		>2 to 4		A		C,D,DH,DH3
A307 Grade B	Any	¼ to 1½		A	B,D,DH	B,C,D,DH,DH3
		>1½ to 2		A	A	
		>2 to 4		A		
A325 Type 1	Plain	½ - 1½		C		C3,D,DH,DH3
	Galvanized	½ - 1½		DH		
A325 Type 3	Plain	½ - 1½		C3		DH3
A354 Grade BC	Plain	¼ to 1½		C	D,DH	C3,D,DH,DH3
		>1½ to 4		C		C3,D,DH,DH3
	Galvanized	¼ to 1½		DH		
		>1½ to 4		DH		
A354 Grade BD	Plain	¼ to 1½		DH	DH	D,DH,DH3
		>1½ to 4		DH		DH3
A449	Plain	¼ to 1½	B		D,DH	B,C,C3,D,DH,DH3
		>1½ to 3		A		C,C3,D,DH,DH3
	Galvanized	¼ to 1½		DH	D,DH	D
		>1½ to 3		DH		D
A490 Type 1	Plain	½ - 1½		DH		DH3
A490 Type 3	Plain	½ - 1½		DH3		
A687	Plain	⅝ - 3		D		DH,DH3
	Galvanized	⅝ - 3		DH		
F1554 Grade 36	Any	¼ to 1½	A		B,D,DH	A,B,C,D,DH,DH3
		>1½ to 4		A		C,D,DH,DH3
F1554 Grade 55	Plain	¼ to 1½	A		B,D,DH	A,B,C,D,DH,DH3
		>1½ to 4		A		C,D,DH,DH3
	Galvanized	¼ to 4		A		C,D,DH,DH3
F1554 Grade 105	Plain	¼ to 1½	D			DH,DH3
		>1½ to 3		DH		DH3
	Galvanized	¼ to 3		DH		DH3

1. The availability of **A563 grade DH** nuts in nominal sizes 3/4" and larger is very limited and generally available only on special orders of 50,000 or more. For smaller quantities, **ASTM A194 grade 2H** should be considered.

Grade of Bolt	A194 Heavy Hex Nut Grade
A193 Grade B7	2H
A193 Grade B8 (Class 1 and 2)	8
A193 Grade B8M (Class 1 and 2)	8M
A320 Grade L7	4 or 7
A320 Grade B8 (Class 1 and 2)	8
A320 Grade B8M (Class 1 and 2)	8M