

# ASTM A453 660A/B/C/D Stud Bolt Set

**Usage:** Oil & Gas engineering, petro-chemical engineering, power station, offshore engineering, nuclear engineering, heavy machinery, skyscraper etc.



## Technical Parameter

Grade	Class	Mechanical Properties								
		Tensile Strength, min		Yield Strength, min, 0.2 % offset		Elongation in 4D, min, %	Reduction of Area, min, %	Brinell Hardness Number	Approximate Rockwell Hardness, H and C	
		Ksi	MPa	Ksi	MPa				H	C
ASTM A453 660	A,B,C	130	895	85	585	15	18	248-341	24 HRC	37 HRC
	D			105	725				35 HRC	
ASTM A453 651	A	100	690	70 <sup>A</sup>	485	18	35	217-277	95 HRB	29 HRC
	B			60 <sup>B</sup>	415				93HRB	28 HRC <sup>C</sup>
ASTM A453 662	A	130	895	85	585	15	18	248-231	24 HRC	35 HRCC
	B			80	550				32 HRC	41 HRC
ASTM A453 665	A	170	1170	120	830	12	15	311-388	32 HRC	41 HRC
	B			155	1070				37 HRC	
ASTM A453 668	A,B	130	895	85	858	15	18	248-341	24 HRC	37 HRC

