



## 10.9 GRADE COMPARISONS

	BS 3692 Gr. 10.9	SAE J429 Gr. 8	ISO 898-1 Gr. 10.9	ASTM A490M-1	BS EN 14399-3 10.9	BS4395 II (12)	DIN 6914
<b>PROOF STRESS</b> N/mm <sup>2</sup>	830	827	830	830	830	776	830
<b>TENSILE STRESS</b> N/mm <sup>2</sup>	1040	1034	1040	1040 ~ 1200	1040	981	1040
<b>HARDNESS</b> HRc	32 ~ 39	33 ~ 39	32 ~ 39	33 ~ 39	32 ~ 39	27 ~ 38	32 ~ 39
<b>ELONGATION</b> %	10	12	9	14	9	9	9
<b>MATERIAL</b>	Carbon Steel with B, Mn or Cr Quenched & Tempered	Medium Carbon Steel or Alloy Steel Quenched & Tempered	Carbon Steel with B, Mn or Cr Quenched & Tempered	Alloy Steel Quenched & Tempered	Alloy Steel Quenched & Tempered	Alloy Steel Quenched & Tempered	Alloy Steel Quenched & Tempered
<b>DIMENSION</b>	NORMAL HEX	NORMAL HEX	NORMAL HEX	HEAVY HEX	HEAVY HEX	HEAVY HEX	HEAVY HEX
<b>COMPATIBLE NUT</b>	BS 3692 Gr. 10	SAE J995 Gr. 8	ISO 898-2 Gr. 10	ASTM A563M 10S	BS EN 14399-3 Gr. 10	BS4395 II Gr. 12	DIN 6915

## Gr. 10 NUT COMPARISONS

	BS 3692 Gr. 10	SAE J995 Gr. 8	ISO 898-2 Gr. 10	ASTM A563M 10S	BS EN 14399-3 Gr. 10	BS 4395 II Gr. 12	DIN 6915
<b>PROOF STRESS</b> N/mm <sup>2</sup>	1050	1205	1050	1245 / 1165 Plain / HDG	1160	1176	1160
<b>HARDNESS</b> HRc	28 ~ 38	24 ~ 35	28 ~ 38	26 ~ 38	28 ~ 38	24 ~ 36	28 ~ 38
<b>MATERIAL</b>	Medium Carbon Steel or Alloy Steel Quenched & Tempered	Medium Carbon Steel or Alloy Steel Quenched & Tempered	Medium Carbon Steel or Alloy Steel Quenched & Tempered	Medium Carbon Steel or Alloy Steel Quenched & Tempered	Alloy Steel Quenched & Tempered	Medium Carbon Steel or Alloy Steel Quenched & Tempered	Medium Carbon Steel or Alloy Steel Quenched & Tempered
<b>DIMENSION</b>	NORMAL HEX	NORMAL HEX	NORMAL HEX	HEAVY HEX	HEAVY HEX	HEAVY HEX	HEAVY HEX