8.8 GRADE COMPARISIONS

	BS 3692 Gr. 8.8		SAE J429 Gr. 5		ISO 898-1 Gr. 8.8		ASTM A325M-1		EN 14399-3 (8.8)		BS4395 I (8.8)		ASTM A193M B7		ASTM A320M L7
PRODUCT RANGE mm/"	< 12	>= 12	<= 1"	> 1"	< 12	>= 12	<= 24	> 24	<= 16	> 16	<= 24	> 24	<= 64	> 64	
PROOF STRESS N/mm^2	580	600	586	510	580	600	600	600	580	600	587	512	720	655	725
TENSILE STRESS N/mm^2	800	830	830	724	800	830	830	830	800	830	827	725	860	795	860
HARDNESS HRC	22 ~ 32	23 ~ 34	25 ~ 34	19 ~ 30	22 ~ 32	23 ~ 34	25 ~ 34	19 ~ 30	22 ~ 32	23 ~ 34	25 ~ 34	25 ~ 34	~ 35	~ 35	-35
ELONGATION %	12	12	14	14	12	12	14	14	12	12	12	12	16	16	16
MATERIAL	Carbon Steel Quenched & Tempered		Plain Carbon Steel or Alloy Steel Quenched and Tempered		Carbon Steel Quenched & Tempered		Medium Carbon Or Alloy Steel Quenched & Tempered		Carbon Steel Quenched & Tempered		Medium Carbon Steel Quenched & Tempered		Chromium-Molybdenum Steel		Chromium-Molybdenum Steel
DIMENSION	NORMAL HEX		NORMAL HEX		NORMAL HEX		HEAVY HEX		HEAVY HEX		HEAVY HEX		HEAVY HEX		HEAVY HEX
COMPATIBLE NUT	BS 3692 Gr. 8		SAE J995 Gr. 5		ISO 898-2 Gr. 8		ASTM A563M 8S		EN 14399-3 Gr. 8		BS4395 I Gr. 10		ASTM A194 2H		ASTM A194 Gr. 7

Gr. 8 NUT COMPARISIONS

	BS 3692 Gr. 8	SAE J995 Gr. 5		ISO 898-2 Gr. 8		ASTM A563M 8S	EN 14399-3 (8)		BS4395 I (10)	ASTM A194H 2H		ASTM A194H Gr. 7
PRODUCT RANGE mm/"		<= 1"	> 1"	<= M16	> M16		<= M16	> M16		< 1-1/2"	>= 1-1/2"	
PROOF STRESS N/mm^2	800	827	724	855~920	920	1075	855~920	920	1000	1205	1205	1205
HARDNESS HRc	~ 30	~ 32	~ 32	~ 30	~ 36	18 ~ 38	~ 30	~ 36	18 ~ 30	24~35	~ 35	24 ~ 35
MATERIAL	Carbon Steel Quenched & Tempered	Plain Carbon Steel or Alloy Steel Quenched and 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		Medium Carbon Steel or Alloy Steel Quenched & Tempered	Medium Carbon Steel or Alloy Steel C > 0.4% Quenched & Tempered		Chromium-Molybdenum Steel
DIMENSION	NORMAL HEX	NORMAL HEX		NORMAL HEX		HEAVY HEX	HEAVY HEX		HEAVY HEX	HEAVY HEX		HEAVY HEX