

BOLT												
Essential Characteristics	Performance:											Harmonised Technical Specification:
	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	
% Elongation after Fracture	12.0% (Minimum)											EN15048-1:2007 (ISO898-1:2013)
Tensile Strength	830 MPa (Minimum)											EN15048-1:2007 (ISO898-1:2013)
Stress at 0.2% non prop Elongation	660 MPa (Minimum)											EN15048-1:2007 (ISO898-1:2013)
Stress under Proof Load	600 MPa (Minimum)											EN15048-1:2007 (ISO898-1:2013)
Strength under Wedge Load	Pass with 6°											EN15048-1:2007 (ISO898-1:2013)
Hardness	23~34 HRC											EN15048-1:2007 (ISO898-1:2013)
Impact Strength	27J at -20°C (Minimum)											EN15048-1:2007 (EN10045-1)
Release of Dangerous Substances												NPD
Durability (Corrosion Protection)	Minimum coating thickness 40 microns											EN15048-1:2007 (BSENISO10684:2004)

NUT												
Essential Characteristics	Performance:											Harmonised Technical Specification:
	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	
Proof Load <b>GR.8 (N)</b>	74,200	101,200	138,200	176,600	225,400	278,800	324,800	422,300	516,100	638,500	751,600	EN15048-1:2007 (ISO898-2:2012)
Proof Load <b>GR.10 (N)</b>	88,500	120,800	164,900	203,500	259,700	321,200	374,200	486,500	594,700	735,600	866,000	
Hardness	<b>GR.8</b> 233~353 HV <b>GR.10</b> 272~353 HV											EN15048-1:2007 (ISO898-2:2012)
Release of Dangerous Substances												NPD
Durability (Corrosion Protection)	Minimum coating thickness 40 microns											EN15048-1:2007 (BSENISO10684:2004)