



BOLT									
Essential Characteristics	Performance:								Harmonised Technical Specification:
	M12	M16	M20	M22	M24	M27	M30	M36	
% Elongation after Fracture	9.0% (Minimum)								EN14399-1:2015 (ISO898-1:2013)
Tensile Strength	1040 MPa (Minimum)								EN14399-1:2015 (ISO898-1:2013)
Stress at 0.2% non prop Elongation	940 MPa (Minimum)								EN14399-1:2015 (ISO898-1:2013)
Stress under Proof Load	830 MPa (Minimum)								EN14399-1:2015 (ISO898-1:2013)
Strength under Wedge Load	Pass with 6°								EN14399-1:2015 (ISO898-1:2013)
Hardness	320~380 HV								EN14399-1:2015 (ISO898-1:2013)
Impact Strength	27J at -20°C (Minimum)								EN14399-1&4:2015 (EN10045-1)
Release of Dangerous Substances									NPD
Durability (Corrosion Protection)	Coating Thickness 45 microns (Minimum)								EN14399-4:2015(ISO10684:2004)

NUT									
Essential Characteristics	Performance:								Harmonised Technical Specification:
	M12	M16	M20	M22	M24	M27	M30	M36	
Proof Load	88,500 N	164,900 N	259,700 N	321,200 N	374,200 N	486,500 N	594,700 N	866,000 N	EN14399-1&4:2015
Hardness	272~353 HV								EN14399-1&4:2015(ISO898-2:2012)
Release of Dangerous Substances									NPD
Durability (Corrosion Protection)	Coating Thickness 45 microns (Minimum)								EN14399-4:2015(ISO10684:2004)