

BOLT									
Essential Characteristics	Performance:								Harmonised Technical Specification:
	M12	M16	M20	M22	M24	M27	M30	M36	
% Elongation after Fracture	12.0% (Minimum)								EN14399-1:2015 (ISO898-1:2013)
Tensile Strength	830 MPa (Minimum)								EN14399-1:2015 (ISO898-1:2013)
Stress at 0.2% non prop Elongation	660 MPa (Minimum)								EN14399-1:2015 (ISO898-1:2013)
Stress under Proof Load	600 MPa (Minimum)								EN14399-1:2015 (ISO898-1:2013)
Strength under Wedge Load	Pass with 6°								EN14399-1:2015 (ISO898-1:2013)
Hardness	255~335 HV								EN14399-1:2015 (ISO898-1:2013)
Impact Strength	27J at –20°C (Minimum)								EN14399-1,3:2015&7:2018 (EN10045-1)
Release of Dangerous Substances									NPD
Durability (Corrosion Protection)	Coating Thickness 45 microns (Minimum)								EN14399-3:2015&7:2018 (ISO10684:2004)
NUT									
Essential Characteristics	Performance:								Harmonised Technical Specification:
	M12	M16	M20	M22	M24	M27	M30	M36	
Proof Load	84,300 N	157,000 N	245,000 N	303,000 N	353,000 N	459,000 N	561,000 N	817,000 N	EN14399-1,3:2015 & 7:2018
Hardness	200~302 HV		233~353 HV						EN14399-1,3:2015 & 7:20018 (ISO898-2:2012)
Release of Dangerous Substances									NPD
Durability (Corrosion Protection)	Coating Thickness 45 microns (Minimum)								EN14399-3:2015 & 7:2018 (ISO10684:2004)