

5 – SEPTEMBER 2010

[From ASD-CERT President](#)

First of all I would like to thank all the participants of the ASD-CERT qualification process which provides common qualification for each manufacturer, which qualification is recognized by all the OEM. A lot of activity since the beginning of this year with 11 PQ issued representing 11 000 €. Currently 15 requests for qualification have been received by the Secretary General, 62 qualifications are underway by Mandated Body representative and 14 qualifications have been sent to ASD-CERT Executive Board for their approval decision.

Several news on this letter:

- The quality Manual will be updated with the modifications mentioned below (see ASD-CERT Quality Manual Update).
- The Executive Board scheduled a meeting on 19th October 2010 at BNAE in France with all Mandated Bodies representatives. The draft agenda will mainly be :
 - a. Welcome to the participants
 - b. Communication of the decisions taken by the board
 - c. Updates of the Quality Manual
 - d. Redefinitions for Mandated Bodies with a new notion of Mandated Body Representatives.
 - e. Guidelines for selection of Mandated bodies
 - i. The Secretary General will sort Mandated bodies representatives by Domain
 - ii. For a company which is not an OEM but acts as Mandated Body, a MoU between ASD-CERT and this company is required and an OEM Mandated body shall counter sign the ACP005
 - iii. In case of complex qualification, more than one Mandated Body Representative could be proposed
 - f. Remind of the ASD-CERT process to issue the PQ
 - i. 3 signatures minimum "Approbation without condition" from the Executive Board
 - ii. 1 PQ is issued for each Technical Specification (applicable for New or Renewal of expired PQ)
 - g. Feedback from Mandated Bodies Representatives on how qualifications are conducted with the manufacturers (technical specifications, tests to be done, analogy, initial qualification data in case of requalification...) and questions which could be shared with the ASD-CERT community.
 - h. Questions
 - i. Next Meeting
- ASD-CERT will apply a new policy to cover the workload by charging a fee for each ACP 008 Manufacturing change request. This starts as of 1st September 2010 with a 500-euro fee for each MCR.

ASD-CERT Quality Manual Update

- Include ACP006 and the Qualification renewal procedure.
- Include Guidelines for selection of Mandated Bodies representatives to conduct a qualification, see PowerPoint presentation for the Executive Board March 4th
- Incorporation of the guide for mandated bodies to the Quality Manual.
- Change : “Governing Board” into “General Assembly”
- 3 signatures out of 5 Executive Board members are required to qualify a manufacturer on the ACP005
- Reminder of the ASD-CERT process to issue the PQ
 - 1st case: 3 approvals → The Secretary General will issue the PQ certificate
 - 2nd case: one disapproval (even if 3 approvals are received) → The Secretary General will inform the Mandated body and the manufacturer. The Process is stopped until they give all required additional data in order to change from disapproval to approval.
 - 3rd case: one approval under condition → The Secretary General will inform the Mandated body and the manufacturer, the PQ is not issued until the manufacturer provides all required data to change the approval under condition to approval without conditions.
- One PQ per Technical Specification. For the renewal of an expired PQ with 2 or more technical specifications, the secretary general will issue 2 or more new PQs and will charge accordingly.
- Mandated Body = company (OEM) which orders and uses the qualified standard parts.
- Mandated Body Representative = a person from a Mandated Body who realizes the audit
- Use EN 9133 for the rules of Mandated Body
- Delete the categories “Mandated Body Junior” and “Mandated Body Senior”
- For a company which is not OEM but acts as Mandated Body, a MoU between ASD-CERT and this company is required and an OEM Mandated Body shall counter sign the ACP005.
- In case of complex qualification, more than one Mandated Body Representative could be proposed (this may result in additional charges for certificate issue).
- The report has to be signed by the Mandated Body Representative

Philippe Canteau – ASD-CERT President

Manufacturer	Product Standard	Product Description	PQ Certificate	PQ issue
ALCOA FIXATIONS SIMMONDS	EN 4011-050	Aerospace series - Nuts, bihexagonal, self-locking, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), silver plated - Classification: 1 550 MPa (at ambient temperature) / 600 °C	PQ 163	2009-03
ALCOA FIXATIONS SIMMONDS	EN3196-100	Aerospace series - Nuts, self-locking, hexagonal, in heat resisting steel FE-PA92HT (A286), silver coated - Classification 1 100 MPa / 425 °C	PQ 173	2010-02
ALCOA FIXATIONS SIMMONDS	EN3377-100	Aerospace series - Nuts, hexagonal, self-locking, in heat resisting steel FE-PA92HT (A286) - Classification: 1 100 MPa (at ambient temperatur) / 425°C	PQ 173	2010-02
ALCOA FIXATIONS SIMMONDS	EN 3728-016, -037, -038	Shaft-nuts, self-locking, left-hand thread, in heat resisting steel FE-PA92HT (A286), silver plated	PQ 166	2009-05
ALCOA FIXATIONS SIMMONDS	EN 4396-016, -037, -038	Shaft-nuts, self-locking, in heat resisting steel FE-PA92HT (A286), silver plated	PQ 166	2009-05
ALCOA FIXATIONS SIMMONDS	EN 3728-018	Shaft-nuts, self-locking, left-hand thread, in heat resisting steel FE-PA92HT (A286), silver plated	PQ 170	2009-07
ALCOA FIXATIONS SIMMONDS	EN 4396-018	Shaft-nuts, self-locking, in heat resisting steel FE-PA92HT (A286), silver plated	PQ 170	2009-07
AMPHENOL AEROSPACE OPERATIONS	EN 2997-001, -003, -004, -008	Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175°C continuous, 200°C continuous, 260°C peak	PQ 104	2009-03
AMPHENOL LTD	EN 2997-003, -004, -008	Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175°C continuous, 200°C continuous, 260°C peak	PQ 080	2009-03
ARMSTRONG PRECISION COMPONENTS LTD	EN 2942-050	Inserts, screw thread, helical coil, self-locking, in heat resisting nickel base alloy Ni-PH2801 (Inconel X750), silver plated	PQ 087	2009-03
ARMSTRONG PRECISION COMPONENTS LTD	EN 2944-050	Inserts, screw thread, helical coil, self-locking, in corrosion resisting steel FE-PA3004	PQ 158	2009-03
ARMSTRONG PRECISION COMPONENTS LTD	EN 3542-050	Inserts, screw thread, helical coil, self-locking, in heat resisting nickel base alloy NI-PH2801 (Inconel X750)	PQ 158	2009-03
ARMSTRONG PRECISION COMPONENTS LTD	EN 2942-040	Inserts, screw thread, helical coil, self-locking, in heat resisting nickel base alloy Ni-PH2801 (Inconel X750), silver plated	PQ 168	2009-06

Manufacturer	Product Standard	Product Description	PQ Certificate	PQ issue
BRISTOL INDUSTRIES	EN 2907-050, -060	Nuts, bihexagonal, self-locking, in heat resisting steel FE-PA92HT (A286), silver plated – Classification : 1 100 Mpa (at ambient temperature) / 650 °C	PQ 180	2009-04
BRISTOL INDUSTRIES	EN 2909-050	Nuts, bihexagonal, self-locking, deep counterbored, in heat resisting steel FE-PA92HT (A286), silver plated – Classification : 1 100 Mpa (at ambient temperature) / 650 °C	PQ 180	2009-04
BRISTOL INDUSTRIES	EN 2911-050	Shank nuts, self-locking, in heat resisting steel FE-PA92HT (A286), silver plated – Classification : 1 100 Mpa (at ambient temperature) / 650 °C	PQ 180	2009-04
BRISTOL INDUSTRIES	EN 3013-050	Nuts, bihexagonal, self-locking, in heat resisting nickel base alloy Ni-P101HT (Waspaloy), silver plated – Classification : 1 210 Mpa (at ambient temperature) / 730 °C	PQ 181	2009-04
CAILLAU	EN 4234	Clamps, worm drive – Dimensions, masses	PQ 154	2008-12
CAILLAU	EN 3730	Clamps, saddle fixed and sliding version in aluminium alloy with rubber cushioning – Dimensions, masses	PQ 155	2008-12
CAILLAU	EN 4113	Clamps, loop ("P" type) in corrosion resisting steel, passivated, with rubber cushioning – Dimensions, masses	PQ 155	2008-12
CAILLAU	EN 4114	Clamps, loop ("P" type) in aluminium alloy, with rubber cushioning – Dimensions, masses	PQ 155	2008-12
CAILLAU	EN 4115	Cushion, rubber for clamps – Dimensions, masses	PQ 156	2008-12
CONESYS	EN 2997-003, -004, -008	Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175°C continuous, 200°C continuous, 260°C peak	PQ 144	2009-04
CONESYS EUROPE	EN 2997-003, -004, -008	Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175°C continuous, 200°C continuous, 260°C peak	PQ 145	2009-04

Manufacturer	Product Standard	Product Description	PQ Certificate	PQ issue
CONNECTEUR ELECTRIQUES DEUTSCH	EN 2997-003, -004, -008, -009, -010, -012, -013 Class K, KE, S, SE	Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175°C continuous, 200°C continuous, 260°C peak	PQ 073	2009-03
LINREAD NORTHBRIDGE	EN 3686-050	Bolts, double hexagon head, relieved shank, long thread, in heat resisting steel FE-PA92HT (A286), silver plated – Classification: 1 100 Mpa/650 °C	PQ 167	2009-06
LINREAD NORTHBRIDGE	EN 3327-050	Bolts, double hexagon head, close tolerance, medium thread length, in heat resisting nickel base alloy NIP100HT (Inconel 718), uncoated – Classification: 1 275 Mpa/650 °C	PQ 172	2009-08
LISI BLANC AERO INDUSTRIES	EN 2910-060	Shank nuts, self-locking, in heat resisting steel FE-PA92HT (A286) – Classification : 1 100 Mpa (at ambient temperature) / 650 °C	PQ 024	2009-06
LISI BLANC AERO INDUSTRIES	EN 3377-040, -050, -100	Nuts, hexagonal, self-locking, in heat resisting steel FE-PA92HT (A286) – Classification: 1 100 Mpa (at ambient temperature) / 425 °C	PQ 026	2009-06
LISI BLANC AERO INDUSTRIES	EN 3723-080, -100	Nuts, hexagonal, self-locking, in heat resisting steel FE-PA92HT (A286) – MoS2 coated – Classification : 1 100 Mpa (at ambient temperature)/425 °C	PQ 027	2009-06
LISI BLANC AERO INDUSTRIES	EN 2934-050, -060, -070	Bolts, T-head, relieved shank, long thread, in heat resisting nickel base alloy NI-P100HT (Inconel 718), silver plated – Classification : 1 275 Mpa (at ambient temperature) / 650 °C	PQ 029	2009-06
LISI BLANC AERO INDUSTRIES	EN 3613-050, -070	Bolts, normal hexagon head, relieved shank, long thread, in heat resisting nickel base alloy NI-P100HT (Inconel 718), silver plated – Classification : 1275 Mpa/650 °C	PQ 029	2009-06
LISI BLANC AERO INDUSTRIES	EN 2936-050, -060, -070	Bolts, T-head, relieved shank, long thread, in heat resisting nickel base alloy NI-P101HT (Waspaloy), silver plated – Classification : 1 210 Mpa (at ambient temperature) / 730 °C	PQ 030	2009-06
LISI/BLANC AERO INDUSTRIES	EN 2910-070	Shank nuts, self-locking, in heat resisting steel FE-PA92HT (A286) – Classification : 1 100 Mpa (at ambient temperature) / 650 °C	PQ 160	2009-03
LISI/BLANC AERO INDUSTRIES	EN 4352-100040	Bolts, double hexagon head with lockwire holes, relieved shank, long thread, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), MoS2 coated – Classification: 1 550 Mpa (at ambient temperature) / 425 °C	PQ 161	2009-03

Manufacturer	Product Standard	Product Description	PQ Certificate	PQ issue
LISI/BLANC AERO INDUSTRIES	EN 4012-100	Nuts, bihexagonal, self-locking, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), MoS2 coated – Classification: 1 550 Mpa (at ambient temperature) / 425 °C	PQ 162	2009-03
LISI/BLANC AERO INDUSTRIES	EN 2910-050	Shank nuts, self-locking, in heat resisting steel FE-PA92HT (A286) - Classification : 1 100 Mpa (at ambient temperature) / 650 °C	PQ 174	2010-02
LISI/BLANC AERO INDUSTRIES	EN 3014-050, -070	Self-locking serrated shank nuts in heat resisting steel FE-PA92HT – Classification : 1100 Mpa/650 °C	PQ 174	2010-02
LISI/BLANC AERO INDUSTRIES	EN 4352-080020	Bolts, double hexagon head with lockwire holes, relieved shank, long thread, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), MoS2 coated – Classification: 1 550 Mpa (at ambient temperature) / 425 °C	PQ 175	2010-02
SAS MACH AERO BRETAGNE	EN 2023	Bearing, spherical plain in corrosion resisting steel with self-lubricating liner, normal series – Dimensions and loads	PQ 178	2010-04
SAS MACH AERO BRETAGNE	EN 2584	Bearings, spherical plain in corrosion resisting steel with self-lubricating liner – Narrow series – Elevated loads at ambient temperature – Dimensions and loads	PQ 179	2010-04
SAS MACH AERO BRETAGNE	EN 2585	Bearings, spherical plain in corrosion resisting steel with self-lubricating liner – Wide series – Elevated loads at ambient temperature – Dimensions and loads	PQ 179	2010-04
SAS MACH AERO BRETAGNE	EN 4613	Aerospace series – Spherical plain bearings in corrosion resisting steel with self-lubricating liner, narrow series – Dimensions and loads – Inch series	PQ 179	2010-04
SAS MACH AERO BRETAGNE	EN 4614	Aerospace series – Spherical plain bearings in corrosion resisting steel with self-lubricating liner, wide series – Dimensions and loads – Inch series	PQ 179	2010-04

Manufacturer	Product Standard	Product Description	PQ Certificate	PQ issue
SOURIAU	EN 3646-003, -004, -005, -006, -007, -008, -009, -010, -011	Aerospace series - Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous	PQ 157	2009-01
SOURIAU	EN 2997-003, -004, -005, -006, -007, -008, -012, -013	Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175°C continuous, 200°C continuous, 260°C peak - Part 006 : Hermetic jam-nut mounted receptacle - Product standard	PQ 003	2009-06
SOURIAU	EN 3645-003, -008, -009	Connectors, electrical, circular, scoop-proof, triple start threaded coupling operating temperature 175 °C or 200 °C continuous - Part 008: Non release plug with grounding ring - Product standard	PQ 169	2009-07
SPS TECHNOLOGIES	EN 4011-070	Nuts, bi-hexagonal, self-locking, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), silver plated - Classification: 1 550 MPa (at ambient temperature) / 600 °C	PQ 182	2009-04
SPS TECHNOLOGIES LTD	EN 4118-050, -060, -070, -080, -100, -120	Nuts, bihexagonal, self-locking, in heat resisting steel FE-PA92HT (A286), silver plated on thread - Classification : 1 100 MPa (at ambient temperature) / 650 °C	PQ 031	2009-05
SPS TECHNOLOGIES LTD	EN 4119-050, -060, -070, -080, -100, -120	Nuts, bihexagonal, self-locking, deep counterbored, in heat resisting steel FE-PA92HT (A286), silver plated on thread -- Classification: 1 100 MPa (at ambient temperature) / 650 °C	PQ 031	2009-05
SPS TECHNOLOGIES LTD	EN 4121-050, -060	Shank nuts, serrated, self-locking, in heat resisting steel FE-PA92HT (A286), silver plated on thread -- Classification: 1 100 MPa (at ambient temperature) / 650 °C	PQ 033	2009-05
SPS TECHNOLOGIES LTD	EN 3239-050, -060, -070, 080, -120	Nuts, self-locking, bi-hexagonal, in heat resisting nickel base alloy NI-P101HT (Waspaloy) - silver plated thread - Classification : 1210 MPa/730 °C	PQ 034	2009-05
SPS TECHNOLOGIES LTD	EN 3637-050, -060	Nuts, self-locking, bi-hexagonal (double reduced), in heat resisting nickel base alloy NI-P101HT (Waspaloy), silver plated - Classification : 1210 MPa/730 °C	PQ 035	2009-05
SPS TECHNOLOGIES LTD	EN 4120-050, -060	Nuts, bi-hexagonal, self-locking, in heat resisting nickel base alloy NI-P101HT (Waspaloy), silver plated on thread - Classification : 1 210 MPa (at ambient temperature) / 730 °C	PQ 035	2009-05

Manufacturer	Product Standard	Product Description	PQ Certificate	PQ issue
SPS TECHNOLOGIE S LTD	EN 3006-080	Bolts, hexagon head, relieved shank, long thread, in heat resisting steel FE-PA92HT(A286) - Classification : 900 MPa (at ambient temperature) / 650 °C	PQ 036	2009-05
SPS TECHNOLOGIE S LTD	EN 3007-080	Bolts, hexagon head, relieved shank, long thread, in heat resisting steel FE-PA92HT (A286), silver plated - Classification : 900 MPa (at ambient temperature) / 650 °C	PQ 036	2009-05
SPS TECHNOLOGIE S LTD	EN 2933-050, -060, -070, -080, -100, -120	Bolts, T-head, relieved shank, long thread, in heat resisting nickel base alloy NI-P100HT (Inconel 718) - Classification : 1 275 MPa (at ambient temperature) / 650 °C	PQ 037	2009-05
SPS TECHNOLOGIE S LTD	EN 2934-050, -060, -070, -080, -100, -120	Bolts, T-head, relieved shank, long thread, in heat resisting nickel base alloy NI-P100HT (Inconel 718), silver plated - Classification : 1 275 MPa (at ambient temperature) / 650 °C	PQ 037	2009-05
SPS TECHNOLOGIE S LTD	EN 3008-070, -080, -100, -120	Bolts, hexagon head, relieved shank, long thread, in heat resisting nickel base alloy NI-P100HT (Inconel 718) - Classification : 1 275 MPa (at ambient temperature)/650 °C	PQ 037	2009-05
SPS TECHNOLOGIE S LTD	EN 3009-050, -060, -070, -080, -100, -120	Bolts, hexagon head, relieved shank, long thread, in heat resisting nickel base alloy NI-P100HT (Inconel 718), silver plated - Classification : 1 275 MPa (at ambient temperature)/650 °C	PQ 037	2009-05
SPS TECHNOLOGIE S LTD	EN 3293-050, -080, -100, -120	Bolts, T-head, close tolerance, medium thread length, in heat resisting nickel base alloy NI-P100HT (Inconel 718), uncoated - Classification : 1275 MPa/650 °C	PQ 037	2009-05
SPS TECHNOLOGIE S LTD	EN 3327-070, -120	Bolts, double hexagon head, close tolerance medium thread length in heat resisting nickel base alloy NI-P100HT (Inconel 718), uncoated - Classification : 1275 MPa/650 °C	PQ 037	2009-05
SPS TECHNOLOGIE S LTD	EN 3613-060, -070, -080, -100, -120	Bolts, normal hexagon head, relieved shank, long thread, in heat resisting nickel base alloy NI-P100HT (Inconel 718), silver plated - Classification : 1275 MPa/650 °C	PQ 037	2009-05
SPS TECHNOLOGIE S LTD	EN 4009-050, -060, -070, -080, -100, -120	Bolts, double hexagon head, close tolerance shank, medium length thread, in heat resisting nickel base alloy NI-P100HT (Inconel 718) - Classification : 1 550 MPa (at ambient temperature) / 650°C	PQ 037	2009-05
SPS TECHNOLOGIE S LTD	EN 2930-050, -060, -070, -080, -100,	Bolts, double hexagon head, relieved shank, long thread, in heat resisting nickel base alloy NI-P101HT (Waspaloy), silver plated - Classification : 1 210 MPa (at ambient temperature) / 730 °C	PQ 038	2009-05

Manufacturer	Product Standard	Product Description	PQ Certificate	PQ issue
SPS TECHNOLOGIE S LTD	EN 2935-050, -060, -070, -080, -100,	Bolts, T-head, relieved shank, long thread, in heat resisting nickel base alloy NI-P101HT (Waspaloy) - Classification : 1 210 MPa (at ambient temperature) / 730 °C	PQ 038	2009-05
SPS TECHNOLOGIE S LTD	EN 2936-050, -060, -070, -080, -100,	Bolts, T-head, relieved shank, long thread, in heat resisting nickel base alloy NI-P101HT (Waspaloy), silver plated – Classification : 1 210 Mpa (at ambient temperature) / 730 °C	PQ 038	2009-05
SPS TECHNOLOGIE S LTD	EN 3010-050, -060, -070, -080, -100,	Bolts, hexagon head, relieved shank, long thread, in heat resisting nickel base alloy NI-P101HT (Waspaloy) – Classification : 1 210 Mpa (at ambient temperature)/730 °C	PQ 038	2009-05
SPS TECHNOLOGIE S LTD	EN 3011-050, -060, -070, -080, -100,	Bolts, hexagon head, relieved shank, long thread, in heat resisting nickel base alloy NI-P101HT (Waspaloy), silver plated – Classification : 1 210 Mpa (at ambient temperature)/730 °C	PQ 038	2009-05
SPS TECHNOLOGIE S LTD	EN 3063-050, -060, -070, -080, -100,	Bolts, double hexagon head, close tolerance shank, medium length thread, in heat resisting nickel base alloy Ni-P101HT (Waspaloy) – Classification : 1 210 Mpa (at ambient temperature) / 730 °C	PQ 038	2009-05
SPS TECHNOLOGIE S LTD	EN 3294-050, -060, -070, -080, -100,	Bolts, T-head, close tolerance in heat resisting nickel base alloy NI-P101HT (Waspaloy), uncoated for increased height nuts – Classification : 1210 Mpa/730°C	PQ 038	2009-05
SPS TECHNOLOGIE S LTD	EN 3379-050, -060, -070, -080, -100,	Bolts, double hexagon head, close tolerance shank, medium length thread, in heat resisting nickel base alloy NI-P101HT (Waspaloy), for increased height nuts – Classification : 1 210 Mpa (at ambient temperature) / 730 °C	PQ 038	2009-05
SPS TECHNOLOGIE S LTD	EN 3301-050	Bolts, T-head, close tolerance medium thread length in heat resisting steel FE-PM38 (FV535), uncoated – Classification : 1000 Mpa/550 °C	PQ 039	2009-05
SPS TECHNOLOGIE S LTD	EN 3323-050	Bolts with double hexagon head, relieved shank, long thread, in heat resisting steel FE-PM38 (FV535) – Classification : 1000 Mpa/550 °C	PQ 039	2009-05
SPS TECHNOLOGIE S LTD	EN 3324-050	Bolts, hexagon head, relieved shank, long thread, in heat resisting steel FE-PM38 (FV535) – Classification : 1000 Mpa/550 °C – Unplated	PQ 039	2009-05
SPS TECHNOLOGIE S LTD	EN 3325-050	Bolts, T-head, relieved shank, long thread, in heat resisting steel, FE-PM38 (FV535) – Classification : 1000 Mpa/550 °C – Unplate	PQ 039	2009-05
SPS TECHNOLOGIE S LTD	EN 3328-050	Bolts double hexagon head, close tolerance, medium thread length, in heat resisting steel FE-PM38 (FV535), uncoated – Classification : 1000 Mpa/550 °C	PQ 039	2009-05

Manufacturer	Product Standard	Product Description	PQ Certificate	PQ issue
SPS TECHNOLOGIE S LTD	EN 3052-050, -080	Bolts, normal hexagonal head, close tolerance normal shank, short thread, in heat and corrosion resisting steel, passivated – Classification : 1 100 Mpa (at ambient temperature) / 425 °C	PQ 053	2009-05
SPS TECHNOLOGIE S LTD	EN 4495-040, -050, -060	Bolts, normal hexagonal head, close tolerance normal shank, short thread, in titanium alloy, anodized, with aluminium pigmented coating – Classification: 1 100 Mpa (at ambient temperature) / 315 °C	PQ 078	2009-05
SPS TECHNOLOGIE S LTD	EN 4496-030, 040, -050, -060, -070, -080, -100	Screws, 100° countersunk normal head, offset cruciform recess, close tolerance normal shank, short thread, in titanium alloy, anodized, with aluminium pigmented coating – Classification: 1 100 Mpa (at ambient temperature) / 315 °C	PQ 078	2009-05
SPS TECHNOLOGIE S LTD	EN 4499-050, 060	Screws, 100° countersunk reduced head, offset cruciform recess, close tolerance normal shank, short thread, in titanium alloy, anodized, with aluminium pigmented coating – Classification: 1 100 Mpa (at ambient temperature) / 315 °C	PQ 078	2009-05
SPS TECHNOLOGIE S LTD	EN 2859-040, -050, -060	Bolts, normal hexagonal head, close tolerance normal shank, short thread, in alloy steel, cadmium plated – Classification : 1 100 Mpa (at ambient temperature) / 235 °C	PQ 098	2009-05
SPS TECHNOLOGIE S LTD	EN 2549-080	Bolts, normal hexagonal head, close tolerance normal shank, short thread, in titanium alloy, anodized, MoS2 lubricated – Classification : 1 100 Mpa (at ambient temperature) / 315 °C	PQ 099	2009-05
SPS TECHNOLOGIE S LTD	EN 2906-050, -070	Nuts, bi-hexagonal, self-locking, in heat resisting steel FE-PA92HT (A286) – Classification : 1 100 Mpa (at ambient temperature) / 650 °C	PQ 100	2009-05
SPS TECHNOLOGIE S LTD	EN 3832-050, -060, -080, -100, -120	Bolts, double hexagon head, relieved shank, long thread, in heat resisting nickel base alloy NI-P100HT (Inconel 718) – Classification : 1550 Mpa (at ambient temperature)/650°C	PQ 164	2009-05
SPS TECHNOLOGIE S LTD	EN 3687-080	Bolts, normal hexagon head, relieved shank, long thread, in heat resisting steel FE-PA92HT (A286), silver plated – Classification : 1100 Mpa/650 °C	PQ 165	2009-05
TRELLEBORG SEALING SOLUTIONS	EN 3049	O-rings, in fluorocarbon rubber (FKM), low compression set – Hardness 80 IRHD	PQ 176	2010-03
TRELLEBORG SEALING SOLUTIONS	Rubber Compound Material EN 3057	Bearings, airframe rolling – Rigid double row ball bearings in steel, cadmium plated – Dimensions and loads	PQ 177	2010-03

Manufacturer	Product Standard	Product Description	PQ Certificate	PQ issue
TRI-STAR Electronics International, INC.	EN 3155-003, -004, -005, -008, -009, -017, -018, -019	Electrical contacts used in elements of connection - Part 019 : Contacts, electrical, female 019, type A, crimp, class S - Product standard	PQ 071	2009-06
TRI-STAR Electronics International, INC.	EN 3155-003, -008, -009, -014, -015, -016, -018, -019, -026, -027, -055, -057	Electrical contacts used in elements of connection - Part 019 : Contacts, electrical, female 019, type A, crimp, class S - Product standard	PQ 140	2009-06
TRI-STAR Electronics International, INC.	EN 3155-003, -004, -008, -009, -014, -015, -016, -017, -026	Electrical contacts used in elements of connection - Part 019 : Contacts, electrical, female 019, type A, crimp, class S - Product standard	PQ 171	2009-06

You can find all the qualified products on the ASD-CERT Qualified Products List available on :

www.asd-cert.org

Certification of Aerospace Standard Products