

ASD-CERT
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PRODUCT QUALIFICATION QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO. No DE CERTIFICAT ZERTIFIKAT NR.	PQ449
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This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

MECAERO SNC - Howmet Fastening
Systems
Boulevard du Grand Castaing
Roques-sur-Garonne
31128
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

Approved under Report No : 1472-(MCR) – Howmet Fastening Systems – Portet sur Garonne (FR) PQ449 Dated: 11 Jun 2023
Completed by ASD-CERT Auditor : Antoine DIAZ

Applicable Standard Norme applicable Zutreffende Norm & Publication Date	Standard Number	Designation (or identifiers)	Products Produits Erzeugnisse
ISO9152: 1998	EN4071	-100	Aerospace series - Bolts, normal hexagonal head, close tolerance normal shank, short thread, in titanium alloy, aluminium IVD coated - Classification: 1100 MPa (at ambient temperature) / 425 °C

This certificate is valid / Ce certificat est valable / Dieses Zertifikat ist gültig

from 08-Apr-2022 until 08-Apr-2025

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen



Christelle Festaud, ASD-CERT Secretary General
331-476-57011 11 August 2023

PRODUCT QUALIFICATION QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO. No DE CERTIFICAT ZERTIFIKAT NR.	PQ449
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This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

MECAERO SNC - Howmet Fastening
Systems
Boulevard du Grand Castaing
Roques-sur-Garonne
31128
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

Approved under Report No : 1348-(R) – Howmet Fastening Systems – Portet sur Garonne (FR) PQ449 EN4071-100 Dated: 21 Oct 2022

Completed by ASD-CERT Auditor : Sebastien GARCIA

Applicable Standard Norme applicable Zutreffende Norm & Publication Date	Standard Number	Designation (or identifiers)	Products Produits Erzeugnisse
ISO9152	EN4071	100[005-019]	Aerospace series - Bolts, normal hexagonal head, close tolerance normal shank, short thread, in titanium alloy, aluminium IVD coated - Classification: 1 100 MPa (at ambient temperature) / 425 °C

This certificate is valid / Ce certificat est valable / Dieses Zertifikat ist gültig

from 08-Apr-2022 until 08-Apr-2025

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen



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PRODUCT QUALIFICATION QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO. No DE CERTIFICAT ZERTIFIKAT NR.	PQ449 – Partial Renewal
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This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME :
NOM DE SOCIETE :
FIRMA :

MECAERO SNC - Howmet Fastening
Systems
Boulevard du Grand Castaing
Roques-sur-Garonne
31128
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION :
HERSTELLUNGSORT :

As above

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

Approved under Report No : 1263-(R) – Howmet Fastening Systems – Portet sur Garonne (FR) PQ449 Dated: 12 May 2022
Completed by ASD-CERT Auditor : Sebastien GARCIA

Applicable Standard Norme applicable Zutreffende Norm & Publication Date	Standard Number	Designation (or identifiers)	Products Produits Erzeugnisse
ISO9152	EN4071	060	Aerospace series - Bolts, normal hexagonal head, close tolerance normal shank, short thread, in titanium alloy, aluminium IVD coated - Classification: 1100 MPa (at ambient temperature) / 425 °C

This certificate is valid / Ce certificat est valable / Dieses Zertifikat ist gültig

from 08-Apr-2022 until 08-Apr-2025

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen



Christelle Festaud, ASD-CERT Secretary General
331-476-57011 30 August 2022

PRODUCT QUALIFICATION QUALIFICATION DE PRODUIT / ERZEUGNISQUALIFIKATION

CERTIFICATE NO. No DE CERTIFICAT ZERTIFIKAT NR.	PQ449
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This is to certify that the manufacturer / Ceci certifie que le fabricant / Hiermit wird bescheinigt, dass der Hersteller

COMPANY NAME : Arconic Toulouse Opérations - Portet sur
NOM DE SOCIETE : Garonne (FR)
FIRMA : Boulevard du Grand Castaing
Toulouse
31128
France

PLACE OF MANUFACTURE :
LIEU DE FABRICATION : As above
HERSTELLUNGSORT :

has met the requirements of EN9133 in respect of the following standards:
a satisfait les exigences de l'EN9133 en ce qui concerne les normes suivantes:
die Forderungen der EN9133 erfüllt unter Berücksichtigung der folgenden Normen:

Approved under Report No : 533 – Arconic Fastening Systems & Rings – Portet sur Garonne (FR) EN3740-060, EN4071-060, EN4071-100 Dated: 14 Dec 2018

Completed by ASD-CERT Auditor : Pauline Hallouin

Applicable Standard Norme applicable Zutreffende Norm & Publication Date	Standard Number	Designation (or identifiers)	Products Produits Erzeugnisse
ISO9152: 1998	EN4071	060[003-012], 100	Bolts, normal hexagonal head, close tolerance normal shank, short thread, in titanium alloy, aluminium IVD coated - Classification: 1100 MPa (at ambient temperature) / 425 °C
ISO9152: 1998	EN3740	060	Bolts, shouldered, thin hexagonal head, close tolerance shank, short thread, in titanium alloy, anodized, MoS2 coated — Classification: 1 100 MPa (at ambient temperature)/315 °C

This certificate is valid until / Ce certificat est valable jusqu'au / Dieses Zertifikat ist gültig bis

08-Apr-2022

except if cancelled in the meantime / sauf si annulé entre-temps / sofern zwischenzeitlich nicht widerrufen

