



Information sheet


Manufacturer-related product qualification for rail vehicle parts (MPQ)

GENERAL

Manufacturer-related product qualification is part of the quality policy at Deutsche Bahn AG and consists of a facility assessment and the examination of products at an external test laboratory (DIN EN ISO/IEC 17025). Samples are generally taken during site inspections.

WHO WILL BE QUALIFIED – WHAT WILL BE QUALIFIED

Foundries and forges always undergo qualification. The evaluation of the internal and as the case may be external heat treatment process is mandatory. Qualification of machining processes is only required for wheelset components (wheel, wheel body, axle, tires, axle box, bearings)- including finishing, the coating of axlse with molybdenum.

Every MPQ-component	
casting	heat treatment
die forging, open die forging	
 The auditing of the processes forging/casting and heat treatment in the entire manufacturing process is mandatory. The audit of a potential external heat treatment is mandatory. Only Deutsche Bahn AG qualified heat treatment (internal/external) is permitted in the manufacturing process of MPQ-components.	

Only special MPQ-processes/components	
final machining	wheel, wheel body, axle, tires, axle box, bearings
molybdenum coating	axles
windcreens	
joining of wheelsets	

The MPQ is always product-related.

All products requiring the MPQ are listed in the document “MPQ-Guideline”.

If a product has a different name than listed, but a comparable function, the MPQ is required.

Otherwise only the manufacturers of windcreens undergo qualification. Side windows or internal windows can be supplied without manufacturer-related product qualification; here the requirements of BN 918 511 should be noted.

The need for manufacturer-related product qualification for rubber-to-metal parts shall be determined on an individual basis by Deutsche Bahn AG, department GS.EF 42 after inspection of drawings. Should qualification be required, it will only be performed for cast or forged components.





PERIOD OF VALIDITY AND CONDITIONS

The duration of validity is 3 years. For extensions an application must be submitted 6 months before expiration. The scope of requalification will be decided in the individual case.

The MPQ is valid for the audited company location, this means a change of location leads to termination of the MPQ.

The Deutsche Bahn AG, department GS.EF 42 has to be informed in case of:

- Relocation of main manufacturing steps and production processes
- Significant changes in the production process (e.g. new heat treatment facilities)

The scope of necessary actions (f.e. process audit, material testing) will be decided in the individual case.

Applicant shall bear the costs of examination of the selected products in the test laboratory.

Under certain conditions, examinations in the presence of the DB AG auditor in the manufacturer's laboratories are possible, using suitable and calibrated test equipment (extension of qualification).

The qualification may be revoked in the event that serious quality problems call its current status into question or the manufacturer disregards important conditions of the qualification.

EXTENSION OF SCOPE OF THE CERTIFICATE

The manufacturer may request that the scope of the qualification be broadened or changed if the conditions for the qualification continue to be satisfied. The required actions shall be specified by Deutsche Bahn AG, department GS.EF 42 on an individual basis.



APPLICATION

The application forms you can find in the supplier portal. There are 2 application forms:

- Application form general components
- Application form wheelset components (wheel, axle, tyre, wheel body, wheelset, molybdenum coating, raw material for wheelset components)

You find the documents in the supplier portal of Deutsche Bahn AG:

http://www.deutschebahn.com/en/business/supplier_portal/information_service/documents.html

The application should be sent to:

Email: **HPQ-SFZ@deutschebahn.com** Fax: +49 69 265-51753

Revision	Datum	Änderungen
-	22.07.2013	-
1	08.04.2016	Anpassung Organisationsbezeichnung
2	18.04.2017	Änderung DB Logo, Anpassung Beantragungsfrist 6 Monate Redaktionelle Überarbeitung