



Bossard Quality Levels Defining the right quality

BOSSARD QUALITY LEVELS

Defining the right quality

Quality is one of the key success factors when it is about making your products efficient, safe, visually flawless and cost-effective.

The right quality

Quality matters. No doubt about that. But quality is a wide field and never means the same when it comes to concrete requirements. Our experience prooves that a common understanding of the desired and required level of quality facilitates things a lot and ensures that our customers are being delivered with products in the right quality.

Bossard Quality Levels

This pyramid is our little helper for the orientation in the field of quality. Starting from the bottom, each level represents higher quality requierements. On the left side you find typical customer demands and evaluations of parts criticality. The corresponding Bossard quality standards and measures you see on the right side. Using this tool will create a common understandig of what you need and Bossard needs to provide.

Customer requirements

Defining the right quality level

LEVELS QUALITY BOSSARD

	Quality planning (Examples)	Specific requirements	Product criticality
+	 Customized planning and specified inspection approval 	• Customized product and process specification	
+	 Aerospace AS9100 Automotive IATF 16949 AIAG PPAP Level 3 & 4 CQI requirements (9,11,12) VDA 6.3 	 Automotive application Traceability Lot separation Cleanliness specifications 	High risk products
+	 AIAG PPAP Level 1 & 2 Certain ppm criteria, e.g. according to ISO 16426 in addition to ISO 3269 	 Customized products based on drawings Functional characteristics, tolerances, coatings, ect. 	Medium risk products
(+)	• Attribute sampling according to ISO 2859	 Further requirements based on standards Residual risks, such as hydrogen embrittlement or heat treated parts 	
	 Acceptance inspection according to ISO 3269 Products according to standards DIN, ISO etc. 	• None	Low risk products
	• None	• None	

BOSSARD Proven Productivity

Bossard Quality Standards

Typical product range	Quality requierments and criticality	Additional manufacturer audit according to Bossard supplier approval	Additional process requirements
5	Specific requirements highest criticality	Customer specified audit	 Specific process according to requirements (product quality incl. performance validation)
4 Bossard brands, like ecosyn®	Specific requirements high criticality	- A - Full production process audit	 PPAP Paperwork & Certification is done for each product and shipment AS9100 requires higher levels in manufacturing and quality standards Cleanliness means following process steps with in-line inspection to prove the quality level specified including a suitable packaging service
3 Customized products	Specific requirements moderate criticality • Quality according to agreements • Dynamic ongoing inspection at manufacturer's place	– A – Full production process audit (optional)	 Design specification/drawing with additional instructions A-Audit means at least one day of travel and visits at supplier site ppm criterias means following process steps with in-line inspection to prove the quality level specified including a suitable packaging service
2 Catalog products	Specific requirements low criticality • Quality according to ISO 2859 or similar • Ongoing inspection off-shore	– B – Simplified production process audit (optional)	 Reduction of risk for hydrogen embrittlement needs longer baking hours: up to 24hrs (market standard: 0-4 hrs) Such special heat treatments mean longer production Specific risk prevention during production
	No specific requirements low criticality • Quality according to ISO 3269 or similar • General supplier approval process • Internal initial inspection, ongoing inspection off-shore	- B - Simplifed production process audit (optional)	 No special requirements World market prices Comparable parts, as long as all suppliers are providing the same raw material quality and production processes
0	Bossard is not operating on this level	-	 Price level is below the usual market price Can be achieved by non-conforming material Can be achieved by non-qualified and non-controlled manufacturers

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