

# **EJOCLEAN®**

Technical cleanliness through optimal processes and analysis



#### Increased customer demands

The standards for the cleanliness of components have been increasing significantly, as even the smallest impurities on component surfaces can have serious consequences in many areas. The areas of possible impact on function or safety include visual defects, e.g. displays or headlight systems, as well as safety related influences such as unwanted contact of electronic systems.

With the innovative EJOCLEAN® programme EJOT has been offering individual customer solutions to use "clean" fasteners in the assembly line. To realise and monitor the cleanliness objectives, EJOT employs state of the art equipment and analysis technology.



The concept of "technical cleanliness" according to VDA 19, VDA 19.2 and ISO 16232 describes cleanliness with regards to particle purity.



EJOCLEAN® Clean room



Industrial component cleaning unit with enclosed conveyor belt for the transport of ultra-fine cleaned goods into the clean room



	EJOCLEAN®		
	Grade 1	Grade 2	
Largest acceptable particle (µm)*	800 μm	400 μm	
Recommended drawing specificatins	X = 800 μm acc. to VDA 19 / ISO 16232	CCC = A (I-K00) acc. to VDA 19 / ISO 16232 or X = 400 µm acc. to VDA 19 / ISO 16232	
Gravimetry (mg/1000 cm²)	-	10	

Note: In individual cases deviations from these values are possible and not all surface coatings are available with an EJOCLEAN® grade. Different specifications have to be agreed upon separately. Also see EJOT company standard WN 0960 and VDA19.

\* The particle definition corresponds to VDA 19, fibres have to be considered separately.

EJOCLEAN® Grade 1 & 2 limit values "maximum acceptable particle size"

Classification according to VDA 19		Number of	Number of
Particle size class	Particle size distribution	metallic particles	non-metallic particle
E	50 - 100 μm	6000	7000
F	100 - 150 μm	1000	1000
G	150 - 200 µm	300	300
Н	200 - 400 μm	200	200
I-K	400 - 1000 μm	0	0

EJOCLEAN® Grade 2 limit values "maximum acceptable particle number" in relation to 1000 cm² on a surface

## Reliable process EJOCLEAN®

State of the art equipment ensures very high process reliability for the ultra fine cleaning of fasteners and formed elements.

## Testing & packaging







Test laboratory
Continuous process
control in our own
cleanliness laboratory.

### Clean room

Since the finely cleaned elements are packaged in a clean room, recontamination due to sedimentation of airborne particles is reliably prevented.



Clean room



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