DID YOU KNOW ?

BENEFITS OF ALUMINUM ARM BODIES SANDBLASTING

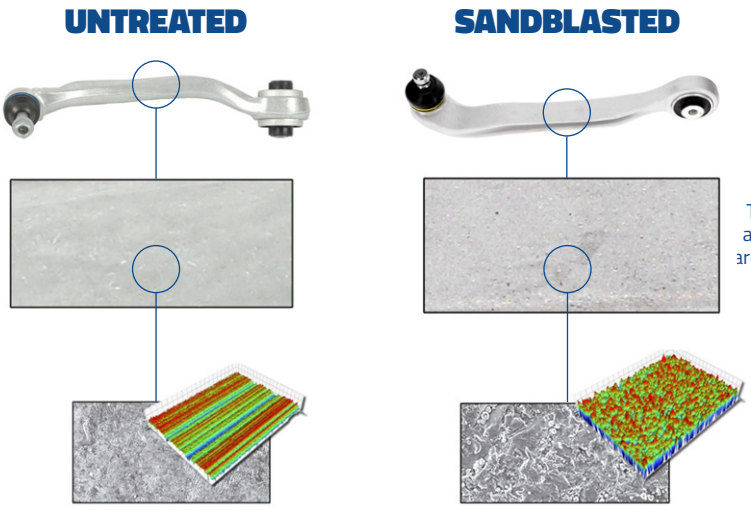
ADVICE FOR THE PROFESSIONAL
DYK21-08

OVERVIEW

The hardening of the sandblasted surface retards the crack nucleation, enhances the resistance to plastic deformation and improves the stress distribution, thus providing the ability to resist to crack propagation.

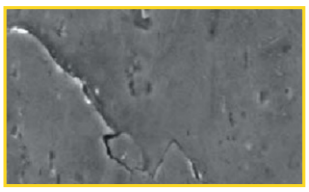
BENEFITS

1. **Appearance:**
   Sandblasting treatment erases the main visible traces of small defects (resulting from imperfections of moulds or cavities or shocks during manipulation) providing a consistent surface finish.



The surface roughness of a sandblasted arm body is around 10 times higher than the original surface.

2. **Fatigue strength increase:**
   Moulding, machining, transporting or assembling an aluminium arm body inevitably creates **stress concentrated micro-regions**, or even cracks on the surface or interior structure..
   Similar structural damages can also be caused by impact while a vehicle is in operation.
   Sandblasting forms a **hardened layer** on the surface of the aluminium arm body, increasing fatigue strength by more than 40%.
   The surface roughness and hardening resulting from sandblasting increases **resistance to fatigue cracking**.
   This type of cracking usually starts at the surface of the material.
   Sandblasting plays an important role in delaying its initiation and hindering its growth and propagation.



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