

APO – W8 colour

PFAS-free with pigments, High-Performance

DESCRIPTION

Type of coating	PFAS-free bonded coating
Application	Assembly, Dynamic
Substrate	Elastomers, thermoplastics, other plastics
Lubricating component	PFAS-free wax
Base	Water-based, NMP-free, PFAS-free
Colour	Colour as specified, without UV indicator
Coating thickness ⁽¹⁾	2 – 90 µm
Areas of application	Seals Small technical elastomer parts Technical plastic components

ADVANTAGES

Properties	<ul style="list-style-type: none"> ▪ Permanent ▪ Dry lubrication to facilitate assembly and insertion processes ▪ Smooth layer to reduce friction in dynamic use ▪ Smooth layer to reduce breakaway torque after downtimes ▪ Also available without colour (transparent, see APO - W8)
Benefits in application	<ul style="list-style-type: none"> ▪ Time savings through trouble-free processes ▪ Force savings of up to 65% during insertion and assembly processes, depending on the component and installation situation ▪ Protection against damage to components during assembly ▪ Low frictional forces in dynamic use ▪ Increased component service life thanks to greater assembly reliability and reduced abrasion ▪ Multiple use of components ▪ Increased reliability in valve seals thanks to protection against adhesion of elastomer components ▪ Easier identification of components through colour coding

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PERFORMANCE PROFILE

Operating temperature - 40 °C to 150 °C

Operational life permanent

Elasticity ⁽²⁾ Can be stretched up to at least 100% at room temperature (approx. 20 °C) without cracking or detachment of the coating.

Media resistance ⁽³⁾

- Hot air (168 h/150 °C)
- Distilled water (168 h/95 °C)
- IRM 901 (168 h/100 °C)
- IRM 903 (168 h/100 °C)
- FAM-B (168 h/60 °C)

Test on O-rings: Expansion of the rings after media immersion up to 50% without cracking or detachment of the coating.

Reduction of press-in forces ⁽⁴⁾ Up to 65%

Test on O-rings with cord thickness 3.53 mm, installation as piston seal, reduction of press-in forces compared to uncoated parts

Notes:

⁽¹⁾Layer thickness is not a quality-relevant property.

⁽²⁾The specified elasticity only applies to the coating in new condition. The adhesion of the coating to the surface during stretching depends on the material and the condition of the component, which is why the maximum value is not always achieved in the application.

⁽³⁾The information on media resistance only applies to the coating and the specified test conditions.

⁽⁴⁾The reduction in press-in forces depends on the component, the operating parameters and the installation situation. Due to these influences, the maximum values cannot always be achieved in the application.

⁽⁵⁾Colour pigments can influence the performance profile of the coating. The performance data given in this data sheet is based on the transparent coating APO-W8. Slight deviations are possible with coloured versions of the coating depending on the selected colour. We therefore recommend repeating the material tests with the individually selected colour variant.

Due to the possible influences of component and application conditions on the performance of the coating, customers are advised to personally test the suitability of the coating for their individual application.