

## 60471 Shellac 3-Circles, decolorized, wax-free

### Description

3-Circles is a decolorized and dewaxed type of shellac. Solutions of this shellac type in aqueous as well as organic solvents are very clear and transparent. 3-Circles is physiologically harmless and biodegradable.

<i>Specification</i>	<i>Methods</i>	<i>Nominal Values</i>	<i>Unit</i>
Acid value	DIN EN ISO 2114	60 – 89	[mg KOH/g]
Saponification value	DIN EN ISO 3681	220 – 280	[mg KOH/g]
Loss on drying	USP	≤ 5	[%]
Color index	Lovibond PRS-Scale 20% in ethanol	1 ½ - 2 ¼	
Wax*	USP	≤ 0.2	[%]
Lead content*	USP	≤ 1	ppm
Colophony*	USP	conforms	
Melting temperature*	ANSI/ASTM D 3451-76 (Kofler-hot bar)	90 – 105	°C

\* Parameter, which are not regularly tested for each batch.

### Storage

Do not store above 20°C. Higher temperatures increases the aging process and increases the risk of blocking. Avoid temperatures above 60°C: causes blocking respectively sintering of the platelets.

### Comment

The above information is derived from our quality control. It does not relieve the purchaser from examining the product upon delivery and gives no assurance of stability of the product for any particular purpose.