

# **AQUACER 507      AQUACER 513      AQUACER 531** **AQUACER 1547**

Aqueous Wax-based Performance Additives to Improve Paper Surfaces

## Composition

<b>AQUACER 507</b>	Anionic emulsion of an oxidized HD polyethylene wax
<b>AQUACER 513</b>	Non-ionic emulsion of an oxidized HD polyethylene wax
<b>AQUACER 531</b>	Non-ionic emulsion of a modified polyethylene wax
<b>AQUACER 1547</b>	Anionic emulsion of an oxidized HD polyethylene wax

## Typical Properties

	<b>Non-volatile matter in %</b>	<b>Melting point (wax component) in °F</b>	<b>Viscosity at 73°F (D=800/s) in mPa·s</b>	<b>pH-value</b>
<b>AQUACER 507</b>	35 Solvents: Water	266	25	9.7
<b>AQUACER 513</b>	35 Solvents: Water	275	60	9.2
<b>AQUACER 531</b>	45 Solvents: Water	266	125	3.5
<b>AQUACER 1547</b>	35 Solvents: Water	257	40	9.7

Values indicated in this data sheet describe typical properties and do not constitute specification limits.

## Recommended Levels

	% additive (as supplied) based upon total formulation	
	in coating colors	in paper coatings
AQUACER 507 AQUACER 513 AQUACER 531 AQUACER 1547	0.6 – 1.5	1 – 6

## Incorporation and Processing Instructions

The additives should be added with low shear force before adding the thickeners. Stir before use.

## Special Features and Benefits

<b>AQUACER 507</b>	<ul style="list-style-type: none"> <li>• No influence on gloss</li> </ul> <p>Picking, scratch resistance, and abrasion resistance are improved. The uniformity of printing ink acceptance and ink setoff are improved as well. Penetration speed of the fountain solution is reduced in offset printing.</p>
<b>AQUACER 513</b>	<ul style="list-style-type: none"> <li>• Improved slip</li> </ul> <p>Picking, scratch resistance, and abrasion resistance are improved. The uniformity of printing ink acceptance and ink setoff are improved as well. Penetration speed of the fountain solution is reduced in offset printing.</p>
<b>AQUACER 531</b>	<ul style="list-style-type: none"> <li>• Reduced static and dynamic friction</li> <li>• Increased print gloss</li> <li>• Improved smoothness</li> </ul> <p>Picking, scratch resistance, and abrasion resistance are improved. The uniformity of printing ink acceptance and ink setoff are improved as well. Penetration speed of the fountain solution is reduced in offset printing.</p>
<b>AQUACER 1547</b>	<ul style="list-style-type: none"> <li>• Barrier properties for specialty applications</li> </ul> <p>Picking, scratch resistance, and abrasion resistance are improved. The uniformity of printing ink acceptance is improved as well. Penetration speed of the fountain solution is reduced in offset printing.</p>

## Special Note

The components of AQUACER 507 and AQUACER 531 are approved under FDA §175.105, 176.180.

The components of AQUACER 513 are approved under FDA §175.105.

The components of AQUACER 1547 are approved under FDA §§175.105, 175.300, 176.170, 176.180.

## Storage and Transportation

**AQUACER 507**  
**AQUACER 513**  
**AQUACER 531**  
**AQUACER 1547**

Temperature sensitive  
Temperature for transport and storage must be between 5°C (41°F) and 35°C (95°F)  
Stir before use

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