

BATTERY & ENERGY STORAGE

VOLTIX Series

VOLTIX 345

VOLTIX 345 is a carbon performance additive for advanced lead-acid batteries, designed to balance high dynamic charge acceptance (DCA) with improved cycle life. Added to the negative active material (NAM), it builds a conductive network that raises formation efficiency, reduces residual sulfate and maintains conductivity at end-of-discharge – addressing the sulfation that limits life in partial-state-of-charge operation.

Benchmarked against a no-additive reference (per EN 50342), grades of this class lift dynamic charge acceptance and improve 17.5%-DOD cycle life while keeping water loss controlled. VOLTIX 345 suits valve-regulated and flooded advanced batteries, including start-stop micro-hybrid and industrial cycling duty where fast charge acceptance and durable cycling are required.

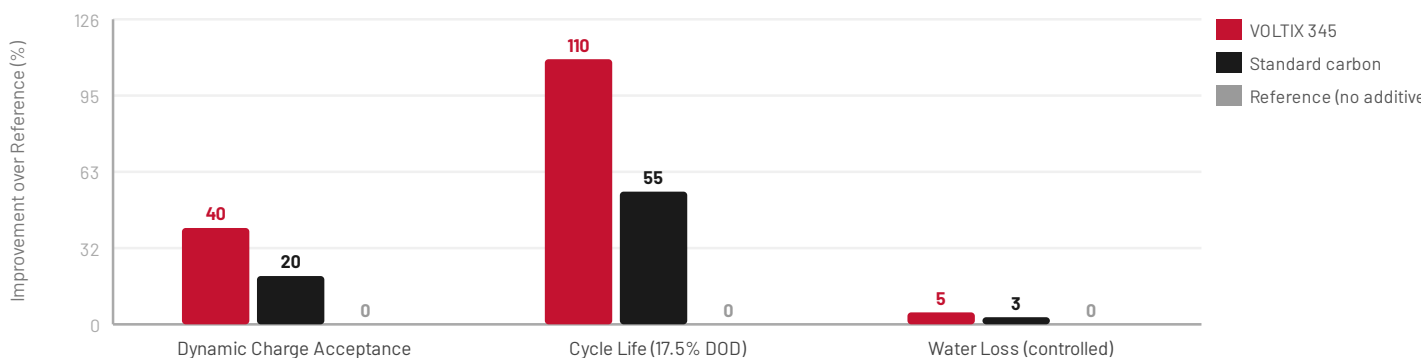
KEY APPLICATIONS

- Advanced lead-acid (VRLA & flooded)
- Start-stop micro-hybrid batteries
- Partial-state-of-charge cycling
- Industrial / motive batteries
- Negative active material (NAM) additive

PERFORMANCE FEATURES

- High dynamic charge acceptance (DCA)
- Improved 17.5%-DOD cycle life
- Suppresses negative-plate sulfation
- Conductive network in NAM
- Controlled water loss
- Low iron / high purity

Performance vs Reference – Advanced Lead-Acid (NAM Additive)



TYPICAL VALUE

Test Items	Unit	Standard
Physical Form	-	Bead + Powder
DBP Absorption No.	cc/100g	180 ± 10
BET Surface Area	m ² /g	260 ± 5
PH Value		8.0 ± 1.0
Tint Strength VS IRB#3	%	88 ± 6
Heating Loss	%	≤ 0.5
Sieve Residue 325M	ppm	≤ 100
Particle Size	nm	30 ± 2
Electric Resistance	Ω·m	≤ 1.3
Ash	%	≤ 0.3

APPLICATION FIELD

Application	Recommended Dosage
Telecom & UPS Batteries	0.5 – 1%
Stationary / ESS Lead-Acid	0.5 – 1%
Flooded Lead-Acid	0.5 – 1%
Industrial / Motive	0.5 – 1%
Negative Active Mass (NAM)	0.5 – 1%
Balanced Power & Cycle	0.5 – 1%

- Recommended dosage can vary with system, electrode/compound design and dispersion conditions.

Physical Form: Bead + Powder | Packaging: 10 kg (powder) / 15 kg (bead) paper or PE bag

ISTAR MATERIALS

Ground Floor, Plot 1/3, Priyadarshini Parisar
West Yellow Building
Opp. Hotel Grand Dhillon, Behind IDBI
Bank Bhilai, Chhattisgarh – 490020, India

Notice and Disclaimer

The data and information provided herein are based on our current knowledge and experience and are believed to be accurate. However, ISTAR MATERIALS cannot guarantee that similar results will be obtained by others as processing conditions and formulations may vary. This information is provided for guidance purposes only and does not constitute a warranty or guarantee of performance.

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