

BATTERY & ENERGY STORAGE

VOLTIX
Series

VOLTIX 11

VOLTIX 11 is a high-surface-area carbon performance additive for advanced lead-acid batteries, designed to maximise dynamic charge acceptance (DCA) while improving cycle life. Added to the negative active material (NAM), its higher structure (DBP 170, BET 75 m²/g) builds a dense 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. The higher active surface that drives charge acceptance is balanced against water loss, which is managed through charging regime and cell design. VOLTIX 11 suits valve-regulated and flooded advanced batteries, including start-stop micro-hybrid and industrial cycling duty.

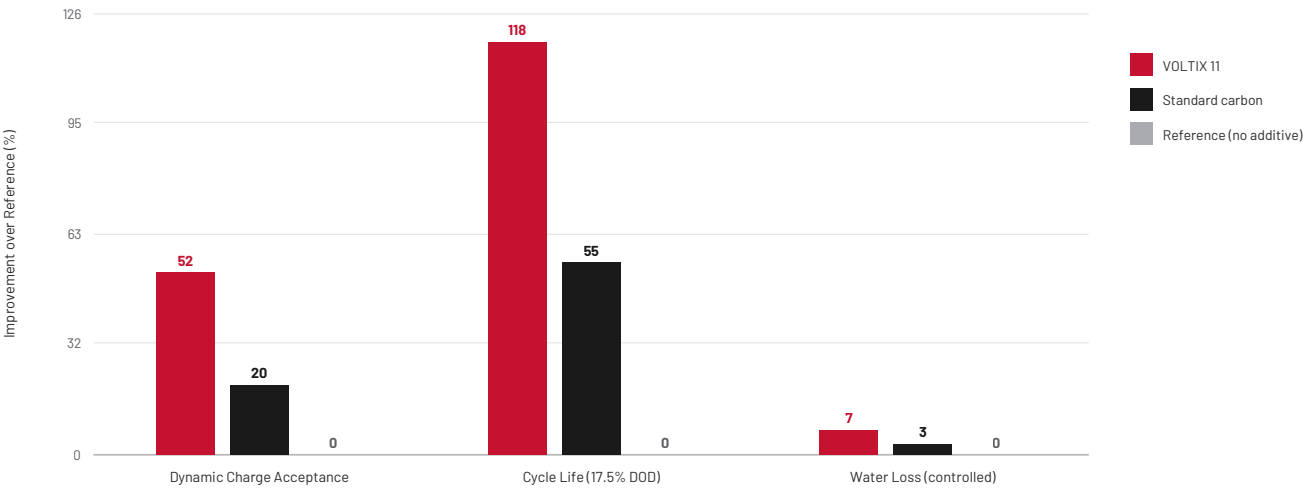
KEY APPLICATIONS

- 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

- Very high dynamic charge acceptance (DCA)
- Improved 17.5%-DOD cycle life
- Suppresses negative-plate sulfation
- Dense conductive network in NAM
- Clean, low-grit for consistent mixing
- Controlled water loss

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



TYPICAL VALUE

Test Items	Unit	Standard
Physical Form	-	Bead
DBP Absorption No.	cc/100g	170 ± 10
BET Surface Area	m²/g	75 ± 10
PH Value		8.0 ± 1.0
Tint Strength VS IRB#3	%	65 ± 6
Heating Loss	%	≤ 0.2
Sieve Residue 325M	ppm	≤ 10
Toluene Extract	%	≤ 99.6
Ash	%	≤ 0.5

APPLICATION FIELD

Application	Recommended Dosage
SLI Flooded Lead-Acid	0.25 – 0.5%
Enhanced Flooded (EFB)	0.25 – 0.5%
Stationary Lead-Acid	0.3 – 0.6%
Cycle-Life Optimised Cells	0.3 – 0.6%
Negative Active Mass (NAM)	0.25 – 0.5%
Cost-Optimised Additive	0.25 – 0.5%

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

Physical Form: Bead | Packaging: 20 kg paper or PE bag | CAS 1333-86-4 · EINECS 215-609-9

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.

+91-9301988995

+91 96305 20016

info@istarmaterials.com