

PetroMAX™ Liquid Phase Series

Activated Carbon for Condensate & Hydrocarbon Purification

High-Purity Granular Activated Carbon for Condensate Polishing, Liquid
Hydrocarbon Purification and Oil & Gas Process Stream Treatment

Industry Background & Application Overview

PetroMAX Liquid Phase Series from Carbonmax Advantech is a specialised range of granular activated carbons engineered for condensate polishing, hydrocarbon purification and oil & gas process stream treatment. These grades are designed for fixed-bed liquid-phase adsorption, supporting removal of trace oil, heavy hydrocarbons, dissolved organics, colour bodies, odour compounds, resins, asphaltenes and selected process impurities while helping protect downstream equipment.



Typical Applications

Steam condensate polishing and recovery systems; oil and heavy hydrocarbon removal upstream of ion exchange resins; natural gas liquids and field condensate polishing; refinery process water and liquid process stream polishing; hydrocarbon colour and odour reduction; lubricant oil ingredients, waxes and specialty refinery products; resin, asphaltene and heavy-end polishing in selected hydrocarbon streams; guard-bed service before sensitive downstream equipment.

Quality, Certifications & Packaging

Carbonmax manufacturing and quality systems comply with major global standards.



Packaging Options

Packaging Options: 25 kg PP / HDPE woven bags with PE inner liner; 25 kg moisture-protected export bags for high-purity grades; 500 kg FIBC / jumbo bags with PE liner; palletised, stretch-wrapped export packing available on request; bulk supply available only where customer handling and contamination-control requirements permit.



Product Variants

Carbonmax offers three performance tiers tailored to customer needs:

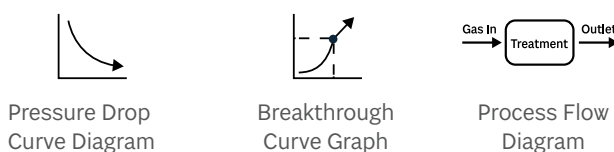
 STANDARD Cost-optimized, reliable performance	 PRO Enhanced adsorption, longer bed life	 ULTRA Premium grade for critical operations
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General Technical Specifications

Specification	Value
Iodine Number	1000–1400 mg/g
CTC Activity	55–70%
Hardness	≥97%
Ash Content	≤3%
Moisture	≤5%

Performance Characteristics

Pressure drop curves, breakthrough graphs, and flow diagrams are used to optimize system design. These are typically customized per project based on gas composition and operating velocity.



Disclaimer: Specifications shown are typical values and may be customised based on application and contract requirements. Actual performance depends on contaminant type, concentration, viscosity, temperature, flow rate, contact time, bed design and start-up / backwash procedure. Users should conduct trials or project-specific validation to confirm suitability.

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