

## CANE CAL® I2X40

### Granular Activated Carbon

#### Description

CANE CAL® is a virgin granular activated carbon designed for treatment of cane sugar liquors. In addition to the decolorization capability available in a high surface area carbon, CANE CAL® also has pH controlling ability as a result of the incorporation of magnesite within the carbon granules. CANE CAL® is used in both fixed and moving beds for continuous decolorization after which the carbon can be thermally reactivated for repeated use. The particle size of I2x40 mesh has been selected to give a high rate of adsorption and low resistance to flow with liquors of medium viscosity.

CANE CAL® is made from selected grades of bituminous coal combined with suitable binders to give superior hardness and long life. Produced under rigidly controlled conditions by high temperature steam activation, this carbon provides high surface area, large pore volume, high density, and a pore structure optimal for the adsorption of color bodies from solution.

#### Applications

One of the most common uses for CANE CAL® is in pH sensitive solutions such as cane sugar liquors. CANE CAL® is manufactured with magnesite that forms a buffer against the pH drop that accompanies the high color removal property of granular activated carbon in deep bed adsorbers.

#### Features

##### *Raw Materials*

- Metallurgical grade bituminous coal
- Reagglomerated with binders and steam activated

##### *Specialty Product*

- Manufactured with magnesite
- Granular product

#### Design Considerations

**Economy of column operation.** The use of highly active Calgon Carbon Corporation granular carbons in fixed or moving beds provides the ultimate in countercurrent efficiency and simplicity of operation. The columns, which are sometimes as small as 2 feet in diameter and 8 feet in height, eliminate the need for slurry tanks, filter presses, and multiple treatments that were required with powdered carbon. A properly designed system offers:

- A cleaner, continuous operation
- More efficient utilization of the activated carbon; i.e., more impurities adsorbed per pound of carbon
- Less equipment; thus less floor space is used
- Lower carbon dosage, which lowers costs
- Improved product quality with better color and odor removal

#### Benefits

- Produces a strongly adsorbing pore structure optimal for the adsorption of color bodies
- Produces a product with high hardness and density, making it suitable for multiple reactivations
- Forms a buffer against the pH drop that accompanies granular activated carbon
- Cleaner, more efficient operation than with powdered carbons
- Lowers product cost, improves product quality
- Requires less equipment to operate than powdered carbon

### Carbon and Process Media

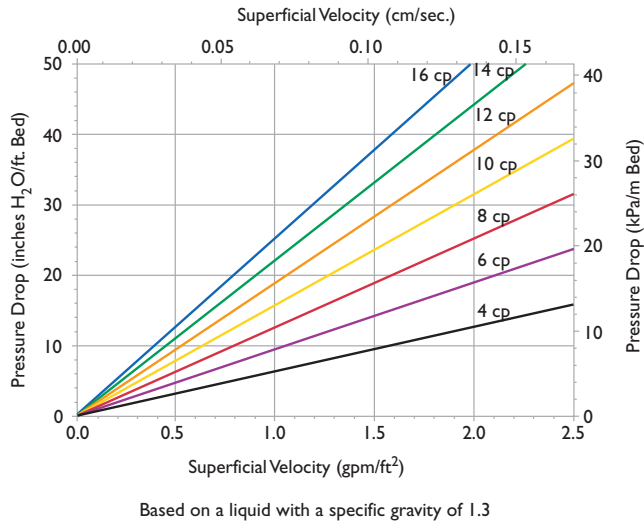
Visit our website at [www.calgoncarbon.com](http://www.calgoncarbon.com), or call 800-422-7266 to learn more about our complete range of products and services, and obtain local contact information.

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### Pressure Drop Curve



### Specifications

Molasses Number (min)	210
Iodine Number, mg/g (min)	1,000
Calculated MgO, weight %	5 - 8
Moisture, weight %, as packed (max)	2
Abrasion Number (min)	65
Mean Particle Diameter, mm	0.9 - 1.1
<b>Screen Size, U. S. Sieve Series (weight %)</b>	
Larger than No. 12 mesh (max)	5.0
Smaller than No. 40 mesh (max)	5.0

### Packaging

55 Pound (25 kg) Kraft Bag  
1,000 Pound (454 kg) Super Sack  
Bulk Truck

### Limitations of Liability

The Supplier's liability and the Purchaser's exclusive remedy for any cause of action arising out of this transaction, including, but not limited to, breach of warranty, negligence and/or indemnification, is expressly limited to a maximum of the purchase price of spare parts or equipment sold hereunder. All claims of whatsoever nature shall be deemed waived unless made in writing within forty-five (45) days of the occurrence giving rise to the claim. In no event shall the Supplier, for any reason or pursuant to any provision of the warranty, be liable for incidental or consequential damages or damages in excess of the purchase price, nor shall the Supplier be liable for loss of profits or fines imposed by governmental agencies.

### Safety Message

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low oxygen spaces should be followed, including all applicable Federal and State requirements.

Visit our website at [www.calgoncarbon.com](http://www.calgoncarbon.com)



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