

**mSORB® APGIII**  
**Air Plant Grade Molecular Sieve Beads, Type 13X**

**CHEMICAL FORMULA**  $\text{Na}_{86}[(\text{AlO}_2)_{86}(\text{SiO}_2)_{106}] \cdot n\text{H}_2\text{O}$

**PRODUCT DESCRIPTION**

mSORB-APGIII adsorbent is specifically developed for air separation plant pre-purification units (APPU). mSORB-APGIII has a 50% higher capacity for dynamic carbon dioxide compared to the original mSORB-APG. Even at the low CO<sub>2</sub> conditions, mSORB-APGIII still has good adsorbent capacity. For new unit designs, the use of APGIII can reduce the APPU size and lower plant capital and operating costs. mSORB-APGIII can also be used for plant revamps to reduce energy consumption or increase plant production capability.

TYPICAL PROPERTIES	
PRODUCT CODE	13X812B-APGIII
Particle Type	Bead
Particle Size	8 x 12
Particle Diameter (mm)	1.9 - 2.3
Equilibrium Water Adsorption @ 50% RH (wt%)	≥ 29
Bulk Density (kg/m <sup>3</sup> )	≥ 640
CO <sub>2</sub> Adsorption Capacity @ 250mm Hg and 25°C (wt%)	≥ 19
CO <sub>2</sub> Adsorption Capacity Measured @ 2mm Hg and 25°C (wt%)	≥ 2
Crush Strength (N)	≥ 25
Attrition (wt%)	≤ 0.1
Package Moisture (wt%)	≤ 1.5

**REGENERATION**

mSORB-APGIII adsorbent can be regenerated for re-use by purging at elevated temperatures or at compressor waste heat temperatures.

**PACKAGING INFORMATION**

Available in 330lb (150kg) drums and super sacks.

**HANDLING & STORAGE RECOMMENDATIONS**

Do not store outside. Store in a dry location to prevent unintentional water adsorption. Reseal packages after opening to prevent contamination and unintended water adsorption. We recommend that you rotate stock so oldest material is used first.

**HEALTH & SAFETY INFORMATION**

Health and safety information is available on our product SDS, which can be downloaded from our web site [interraglobal.com](http://interraglobal.com) or by contacting Interra Global at 847.292.8600.