

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_2 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^3)	≥ 640
CO_2 Adsorption Capacity @ 250mm Hg and 25°C (wt%)	≥ 19
CO_2 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 filled to order specification.

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 website interraglobal.com or by contacting Interra Global at 847.292.8600.