



ANDREA GALLO DI LUIGI S.r.l.

Azienda fondata nel 1892

[www.andreagallo.it](http://www.andreagallo.it)

## Technical Data Sheet

# Allumina Attivata D grade

**Application:** Highly recommended for air and gas drying, where high water adsorption capacity combined with excellent mechanical properties are mandatory.

**Description:** Regenerative Activated Alumina with high water adsorption capacity and strong attrition resistance to ensure less dust formation to protect downstream valves and minimize filter plugging.

**Allumina attivata** presents an exceptional cyclic stability in Thermal Swing Adsorption (TSA) applications as it minimizes hydrothermal ageing when meeting low dew point specifications. It also shows long term performance in Pressure Swing Adsorption (PSA) applications because of its very good mechanical properties.

**Allumina attivata** is available in 2-5, 2.5-5 and 4-8 mm sizes.

Typical Properties				
■ High purity alumina beads				
■ Diameter	2.0 to 5.0	2.5 to 5.0	4.0 to 8.0	mm
■ Alumina (Al <sub>2</sub> O <sub>3</sub> )		93.5 min.		wt%
■ Sodium oxide (Na <sub>2</sub> O)		3200		wt ppm
■ Loss on ignition (300-1000 °C)		5		wt%
■ Surface area	335	335	330	m <sup>2</sup> /g
■ Total pore volume		44		cm <sup>3</sup> /100g
■ Sock loading density	780	780	770	kg/m <sup>3</sup>
■ Dense loading density	860	860	850	kg/m <sup>3</sup>
■ Particle crushing strength	19	21	44	daN
■ Attrition resistance (AIF method )	99.5	99.3	99.2	wt%
■ Static adsorption ( at 60% RH)	21.5	21.5	20.8	wt%
Shipping Information				
■ Packaging	217 l. fiber drums. Net 160 kg (353 lbs)			
	80 l. Net 50 kg (110 lbs). For 2-5mm and 4-8mm.			
	1500 l. big bags. Net 1000 kg (2205 lbs)			