

# TRAMFLOC, INC.

6046 FM 2920 Road, #615, Spring, TX 77379    Voice: 888-929-8973    Fax: 480-383-6895

## Technical Information Bulletin

### TRAMFLOC® AA ESM SERIES ACTIVATED ALUMINA

#### ***Product Description***

AA ESM series Activated Aluminas have high surface area, exceptional purity and possesses low bulk density.

#### ***Uses***

AA ESM series Activated Alumina is used in the treatment of both potable and wastewater as a scavenger of free fluoride. Other uses include chemical processing, as a filtration medium, as a desiccant for liquids and gases, and a scavenger of both organic and free fluoride in an alkylate stream. AA ESM Series Activated Alumina can also serve as arsenic removal media, although there are other grades of Tramfloc Activated Alumina which may be more suitable. Please consult Tramfloc for Arsenic removal information.

#### ***Grades Available***

5 X 8 mesh	(4.0 mm X 2.3 mm)
8 x 14 mesh	(2.4 mm x 1.2 mm)
14 x 28 mesh	(1.4 mm x 0.5 mm)
28 x 48 mesh	(0.30 mm x 0.59 mm)
48 x 100 mesh	(0.15 mm x 0.30 mm)

#### ***Chemical Analysis (Dry Basis)***

	<u>Typical</u>
SiO <sub>2</sub>	0.02 wt-%
Fe <sub>2</sub> O <sub>3</sub>	0.02 wt-%
TiO <sub>2</sub>	0.002 wt-%
Na <sub>2</sub> O	0.35 wt-%
Al <sub>2</sub> O <sub>3</sub>	93.6 wt-%
Loss on ignition	6.0 wt-%

#### ***Physical Properties (8 x 14 Mesh Granules)***

	<u>Typical</u>	<u>Typical Range</u>
Surface area	300 m <sup>2</sup> /gm	270 - 340 m <sup>2</sup> /gm
Bulk density, packed	45 lb/ft <sup>3</sup> (697 kg/m <sup>3</sup> )	40 - 47 lb/ft <sup>3</sup> (640 - 748 kg/m <sup>3</sup> )

#### ***Screen Sizing***

	<u>Typical</u>	<u>Typical Range</u>
Oversize	2 wt-%	0 - 5 wt-%
Undersize	2 wt-%	1 - 5 wt-%

#### ***Shipping Information***

AA ESM Series Activated Alumina is available in 250 lb. steel drums and in 2,000 lb. sacks.

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