

Doc.No.033 INDUSTSORB Data Sheet

APPLICATION

IndustSorb is a versatile industrial absorbent that can be used for a wide variety of applications where high absorbing capacity is required. IndustSorb is currently used in the manufacture of desiccates, pesticide carriers and spillage cleaning kits. IndustSorb has been successfully used to produce desiccates for the past 4 years and form part in the of formulations of some well-known brands. When compared to our local competitors IndustSorb excels in water retention and absorption capacity absorbing up to 80 % of its own mass in water. When used in spill kit applications IndustSorb has the amazing ability to absorb oils and fuels thereby rendering them non-flammable.

MINERAL DESCRIPTION

The versatile mineral that is the main component of IndustSorb is better known as Attapulgite or Fuller’s earth. Attapulgite is a needle-like clay mineral composed of magnesium-aluminium phyllosilicate (Mg, Al)2Si4O10(OH)•4(H2O).

IndustSorb is a natural occurring Attapulgite clay-based product that has been mined, crushed, dried and accurately screened before packing. The drying process removes up to 20% of the free moisture from the raw clay but does not remove all moisture associated with the raw clay. The high-quality deposit of attapulgite is mined and processed near Mableskraal in the North-West province of South Africa.

PACKAGING AND TRANSPORT

IndustSorb is packaged in 25 Kg woven polypropylene bags and is transported by truck or container.

PRODUCT OPTIONS

Non-standard IndustSorb sizes are available on request. Please refer to physical properties table.

TYPICAL CHEMICAL PROPERTIES

Compound identity	Wt%
SiO ₂	61.20%
Al ₂ O ₃	8.16%
Fe ₂ O ₃	6.91%
K ₂ O	0.27%
CaO	7.90%
Na ₂ O	0.06%
MgO	15.50%
TOTAL	100%

Property	Value
Surface area	92 m ² /g
Specific gravity (20 °C)	2.3 – 2.5 g/cm ³
Porosity	0.405
Void space	68 %
Oil absorption	Approximately 0.85 Kg/Kg

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TYPICAL PHYSICAL PROPERTIES

Property	IndustSorb 1214	IndustSorb 1235	IndustSorb 1435	IndustSorb 3560	IndustSorb 35
Particle Size	12 - 14 # 1.8 - 1.4 mm	12 - 35 # 1.8 - 0.5 mm	14 - 35 # 1.4 - 0.5 mm	35 - 60 # 0.5 - 0.25mm	35 # 0.25 - 0.05 mm
Bulk density	660 kg/m ³ 41 lb/ft ³	660 kg/m ³ 41 lb/ft ³	660 kg/m ³ 41 lb/ft ³	660 kg/m ³ 41 lb/ft ³	660 kg/m ³ 41 lb/ft ³
LOI	35%	35%	35%	35%	35%
pH	7 - 8	7 - 8	7 - 8	7 - 8	7 - 8
Volatile Classification	RVM	RVM	RVM	RVM	RVM
Free Moisture	0 – 12%	0 – 12%	0 – 12%	0 – 12%*	0 – 12%*
Colour	Cream	Cream	Cream	Cream	Cream

***Free moisture can be specified**