

## Material Product Data Sheet

### Product: Alpha Alumina ( $\alpha$ -Al<sub>2</sub>O<sub>3</sub>)

#### 1- Manufacturer company profile

**Product:** Alpha Alumina

**Address:** Iran, Isfahan, Khomeini Shahr, Hakim Farzaneh St., No. 31

**Mobile:** +989129477099

**Fax:** +983133931261

**E-Mail:** fipco.ir@gmail.com

#### 2- Product Specifications

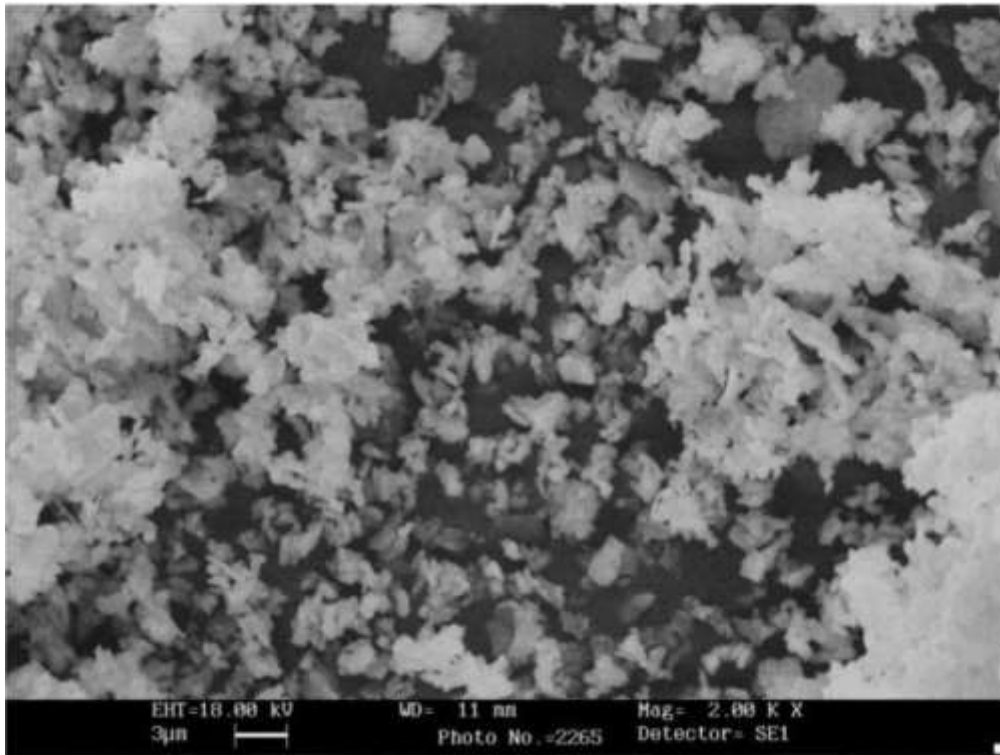
##### Calcined Aluminas for Polishing

**Classification:** Ceramic, Alumina based

**CAS No:** FG-5

**Chemistry:** Al<sub>2</sub>O<sub>3</sub>

Product / Properties	Unit	FG-5
Calcination degree		low
Primary crystal size	$\mu\text{m}$	$\leq 1$
Alpha- Al <sub>2</sub> O <sub>3</sub> content	%	$\geq 70$
<b>Particle Size</b>		
D10	$\mu\text{m}$	0.8
D50	$\mu\text{m}$	1.8
D90	$\mu\text{m}$	3.1
Specific surface area / BET	m <sup>2</sup> /g	15
Loose bulk density	g/l	0.2-0.3
Oil absorption	%	35-40
Cutting effect		2
Polishing effect		10

**Product: Alpha Alumina ( $\alpha$ -Al<sub>2</sub>O<sub>3</sub>)**
**SEM :**

**SEM image of Al<sub>2</sub>O<sub>3</sub> powder.**

Sample	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MgO
	%	%	%	%	%	%	%
FM1	N	99.4	0.058	0.019	0.428	0.04	0.109