

# **SHARPSHOT®**

## Iron Silicate Abrasives – Technical Data – Nov 2018

Physical Properties

Mohs Hardness: >7  
Specific Gravity: 3.4 to 3.6  
Color: Dull Black  
Shape: Uniform & Angular  
Bulk Density: 100 -120 lbs/cu.ft.

Aggregate Properties

Absorption %: 0.5%  
Fractured Faces: 100%  
LA Abrasion %: 5% at 100 revolutions  
20% at 500 revolutions



Typical Chemical Analysis

Fe <sub>2</sub> O <sub>3</sub>	45.40%
SiO <sub>2</sub>	39.40%
Al <sub>2</sub> O <sub>3</sub>	7.30%
CaO	6.60%
MnO	0.01%
MgO	1.70%
Na <sub>2</sub> O	0.20%
K <sub>2</sub> O	0.30%
TiO <sub>2</sub>	0.20%
P <sub>2</sub> O <sub>5</sub>	0.10%
S	1.00%

U.S. STD. Sieve	X-COARSE		COARSE		MEDIUM		FINE		X-FINE	
	Range % Retained	Typical	Range % Retained	Typical	Range % Retained	Typical	Range % Retained	Typical	Range % Retained	Typical
8	0	0								
12	4-20	6	0-5	.5	0-2	.1				
16	30-60	42	10-40	29	0-10	3				
20	10-40	32	20-50	38	10-50	27	0-10	9		
30	5-20	15	10-40	23	10-40	28	20-60	35		
40	0-9	4	0-20	9	10-40	28	20-60	32	0-2	1
50	0-2	0			5-35	14	10-30	19	10-30	21
60							0-15	4	10-40	20
70			0-10	1	0-10	1	0-10	1	5-30	14
80			0-2	.5	0-2	.5	0-5	.5	0-25	14
120							0-5	.5	5-30	21
-120									0-13	9

Sharpshot® qualifies as a Type II, Class A abrasive when tested in accordance with section 4.1 of SSPC Abrasive Standard No. 1 (SSPC-AB-1)

**Performance Data - Typical Profile in Mils**

Grade	Typical Profile (mils)	Pressure (psi)	Surface Profile	Angle
X-Coarse	4.0 - 5.0	90 - 100	18" to 24" to Surface	45 to 90 Degree Angle
Coarse	3.5 - 5.0	90 - 100	18" to 24" to Surface	45 to 90 Degree Angle
Medium	2.5 - 3.5	90 - 100	18" to 24" to Surface	45 to 90 Degree Angle
Fine	2.0 - 3.0	90 - 100	18" to 24" to Surface	45 to 90 Degree Angle
X-Fine	1.5 - 2.5	90 - 100	18" to 24" to Surface	45 to 90 Degree Angle