



RPG – ATOMISED RPG – ATOMISED RPG – ATOMISED

**PHYSICAL
PROPERTIES**

CHEMICAL COMPOSITION

Si	–	15 %
Fe	-	82%
C	-	0.4 %
Mn	–	0.5%
Cr	–	0.5 %

BULK DENSITY

RPG - D75	-	4.1g/cm ³
RPG – D55	-	4.1g/cm ³
RPG – D48	-	4.1g/cm ³
RPG – D40	-	4.1g/cm ³
Course Grade	-	4.1g/cm ³
Fine Grade	-	4.1g/cm ³
Cyclone 60	-	4.1g/cm ³

SPECIFIC GRAVITY

7.20 +/- 0.15g/cm

NON MAGNETICS (Davis Tube)
<0.4%

MAGNETIC SUSCEPTIBILITY
(Via Satmagan Balance)

60 % Min

PACKAGING

- Bulk Bag – 1MT (2205 lb)
- Bulk Bag – 2MT (4410 lb)
- Steel Drum –On Request



This is a product information sheet. It is not a specification sheet. The values are for indication purposes only. Due to the nature of the production process minor variations of sizing and chemical analysis in the actual product may occur. If your process is such that minor variations can cause problems or damage to your process/products, please call our office for additional technical help.

SIEVE SPECIFICATIONS

Weight %

Size US Mesh	+48	+65	+100	+150	+200	+325	-325
Size Micron µ	320µ	212µ	150µ	106µ	75µ	45µ	45µ
	Cumulative %						Absolute %
RPG – D75	0 -	0 - 2	1 - 10	10 - 18	14 - 22	26 - 36	26 - 36
RPG – D55	0	0 - 3	0 - 2	0 - 6	4 - 16	28 - 48	50 - 55
RPG – D30AM*	0	0 - 3	0 - 2	0 - 6	4 - 16	28 - 48	50 - 55
RPG – D40	0	0	0 - 1	0 - 1	0 - 4	16 - 24	72 - 81
RPG – CG35	0	0	1 – 10	10 - 18	14 - 22	16 - 30	32 - 42
RPG – FG45	0	0	0 - 4	4 - 10	4 - 16	8 - 25	42 - 50
RPG – C60	0	0	0	0 - 2	2 - 6	6 - 22	68 - 78
RPG – C40	0	0	0	0 - 2	2 - 6	6 - 8	82 - 90

*RPG D30AM is a blend of Atomised 70% and Milled 30% HMS used mostly in double density drums

DESCRIPTION

RPG Atomised 14/16% FeSi is produced from virgin steel and Ferro silicon(75%Si). It is melted in Induction furnaces and then atomised under controlled atomising heads to form Atomised HMS Powder with high density. This process route allows the exact control shape, Chemical and physical properties.

APPLICATIONS

RPG Atomised 14/16% FeSi HMS Media is suited for HMS Slurry separation systems. It is suitable for both drum (Bath) and Cyclone separation systems. It is ideal for Aggregates, Metals, Minerals, and any other process needing a sink/float process with particles of specific gravity ranges of 1.8 – 4.2 with a cut density below 4.0. It is ideally suited for the recycling industry.

ADVANTAGES

- High Fe Content – Increased Magnetic Susceptibility – High recovery in Magnetic Separator results in lower losses of media and lower consumption.
- High Bulk Density – Requires less media to achieve required cut density. Results in a Lower viscosity slurry and a more stable operation.
- Dynamic sieving control, consistent and reproducible sieve analysis. Lower process variation.
- Quality Control – Sieve analysis on every 1 MT.
- Product is made from virgin raw materials. Contains low levels of trace elements unlike products made from a By-product of Fused alumina.
- Product is spherical in nature; this allows for higher cut densities and thus better float/sink separation. This also allows for the product to be more easily recovered in the final wash station, meaning lower consumption per ton of feed.