

1. PRODUCT FEATURES

- **MEDIUM DENSITY CERAMIC** SUITABLE FOR USE AS HYDRAULIC PROPPING AGENT (PROPPANT)
- **INTERMEDIATE – HIGH STRENGTH**
- **UNIFORMITY** IN SHAPE AND SIZE
- **VERSATILITY**, SUITABLE FOR A BROAD RANGE OF WELLS AND APPLICATIONS
- **CHEMICALLY INERT**
- **EXCELLENT COMBINATION** OF PERFORMANCE AND PRICE
- **AVAILABLE SIZES:** 16/30, 20/40, 30/50 AND 40/70

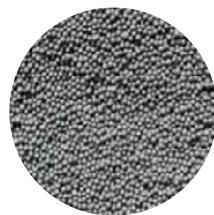
2. PHYSICAL AND CHEMICAL PROPERTIES

Chemical analysis	
% Al ₂ O ₃	75 - 77
% SiO ₂	11 - 13
% Fe ₂ O ₃	2 - 4
% TiO ₂	2 - 4
% Otros.....	6 - 7

US Mesh	Microns	Particle size distributions			
		16/30	20/40	30/50	40/70
+16 mesh	1180 µm	1% - 5%			
-16+20 mesh	850 µm	80% - 89%	3% - 8%		
-20+30 mesh	600 µm	10% - 15%	62% - 87%	4% - 6%	
-30+40 mesh	425 µm		10% - 30%	69% - 76%	47% - 51%
-40+50 mesh	300 µm			20% - 25%	
-50+70 mesh	212 µm				47% - 51%
- 70 mesh	< 212 µm				< 5%
Median particle size, µm		930 - 970	660 - 720	470 - 500	380 - 430



Proppant M 16/30



Proppant M 20/40



Proppant M 30/50



Proppant M 40/70

Physical properties

Roundness (Krumbein & Sloss).....	0.9	Crush resistance test:		
Sphericity (Krumbein & Sloss).....	0.9	psi	MPa	% fines generated
Bulk density.....	1.80 – 1.85 g/cm ³	7,500	52	3,0%
	112 – 115 lb/ft ³	10,000	69	6,5%
Apparent specific gravity.....	3.22 – 3.25	12,500	86	12,0%
Solubility in 12/3 HCl/HF acid.....	< 7%	14,500	100	14,5%

4. PACKAGING AND DELIVERY

Ceramic proppants M are supplied in the following formats:

- In bulk.
- In big – bags of 1,000 kg.

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