



PentaMena

Oilfield And Facility Services

AN EXCLUSIVE SUPPLIER FOR ALL KIND OF OILFIELD, CONSTRUCTION, TOOLS,PPE & FACILITY SERVICES IN UAE

WE ARE AN ISO 9001:2015, ICV CERTIFIED, ADNOC PREQUALIFIED SUPPLIER AND PROVIDE HIGH QUALITY OF ALL KIND OF ABRASIVES, EQUIPMENT AND ACCESSORIES WITH MOST COMPETITIVE PRICING. WE WILL BE PLEASED TO OFFER OUR SERVICES TO YOUR ESTEEMED ORGANIZATION

WE DO TAKE CARE OF ALL OUR CLIENTS EQUALLY AND WITH SAME DEDICATION AND PROFESSIONALISM.

ADNOC PRE-QUALIFICATION NUMBER: 10069453



MENA ABRASIVES



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PENTAMENA MENA ABRASIVES



- a)Product Name :GARNET**
- b)Sizes : 20/40, 30/60, 80/120 Mesh**
- c)Chemical Family : Almandine Garnet**
- d)Formula : $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$**
- e)Color : Reddish orange to red, slightly purplish red to reddish purple and usually dark in tone**

Almandine Garnet is the only eco-friendly abrasive mineral in the world with its advantages far outreaching its alternatives. Its unique grain hardness and toughness guarantee productivity & efficiency.

Traces of dust in the unused product is from calcium carbonate which is also Non-Hazardous.

Recommended use: Blast cleaning abrasive, water jet cutting abrasive, water filtration media.



SECTION-1 PRODUCT SPECIFICATIONS

Name: **MENA GARNET (IREL-INDIA GARNET)**

Grade: **30/60**

Origin Country: **INDIA**

SECTION-1. a CHEMICAL COMPOSITION -30/60 (TYPICAL)

FREE SILICA LT	0.25%
SiO ₂	36.10%
Al ₂ O ₃	20.40%
FeO	29.80%
TiO ₂	1.80%
Fe ₂ O ₃	1.70%
MnO ₂	1.05%

Water Soluble Sulphate (CL) Typical	Less than 25ppm
Conductivity	Less than 100 µS/cm
Water Soluble Sulphate (SO₄) LT	100-120 ppm

SECTION-1. b SIEVE ANALYSIS (5 TO 10% VARIATION)

30-60 Mesh
+30 Mesh : 5% Max
-60 Mesh : 5% Max

PRODUCT & GRADE: **(MENA GARNET-IREL) INDIAN GARNET 30/60**

SEIVE MICRON	ASTME MESH	% WEIGHT RETAINED (TYPICAL)	CUM% RETAINED
600	30	25.8	2.58
425	40	268.3	26.89
300	50	460.3	46.03
250	60	158.9	15.89
212	70	60.7	6.07
Pan	Pan	26	2.6

SECTION-1.c NOTES

- # All materials will be supplied with batch certificates
- # Batch number tags will be tied to the bags
- # Garnet is a natural mineral, variation in listed values is possible

SECTION-2 PRODUCT SPECIFICATIONS

Name: **MENA-SUPER GARNET (IREL-INDIA GARNET)**

Grade: **30/60**

Origin Country: **INDIA**

SECTION-2. a CHEMICAL COMPOSITION -30/60)

Elements	Guaranteed	Typical
Sio2	33.0 – 38.0 %	36.06
Al2O3	19.0 –22.0 %	20.26
Fe2O3	30 – 35.0 %	31.66
TiOz	0.5 – 2.8%	1.80
CaO	1.0 –2.0 %	1.86
MgO	6.0 – 8.0 %	6.10

Mineralogy	Guaranteed (%)	Typical
Garnet	MAX 98.50	98.92
Ilmenite	MAX 01.00	0.86
Others	MAX 00.50	0.22

SECTION-2. b PARTICLE SIZE ANALYSIS REPORT

Mesh	M.M	Guaranteed	Typical
30	0.600	0—2	0.44
40	0.425	12—22	17.48
50	0.300	45—65	60.86
60	0.250	5—25	11.42
70	0.212	0—10	6.38
80	0.180	0—5	3.42

SECTION-2. c PHYSICAL ANALYSIS

Parameters	Guaranteed	Typical
Hardness	Min. 12 Moh Scale	9 Moh Scale
Conductivity	Max <100 µS/cm	85 µS/cm
Chloride	Max 25 ppm	19 ppm
Specific Gravity	3.9 – 4.3	4.1KS/DM3
Bulk Density	2.10 – 2.70 g/cm³	2.46 g/m³
Toxic substance	None	None
Suspend Solid	Max 1500 mg/l	680 mg/l
Moisture Content	Max 0.30 %	0.16 %

SECTION-2. d SIEVE ANALYSIS (5 TO 10% VARIATION)

30-60 Mesh
+30 Mesh : 5% Max
-60 Mesh : 5% Max

SECTION-2. e NOTES

- # All materials will be supplied with batch certificates
- # Batch number tags will be tied to the bags
- # Garnet is a natural mineral, variation in listed values is possible

GARNET 30-60



GARNET 20-40



CONTACT DETAILS

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