

# A) Test Certificate and sieve Analysis report for OMGRIT HD+ Copper Slag Abrasives :

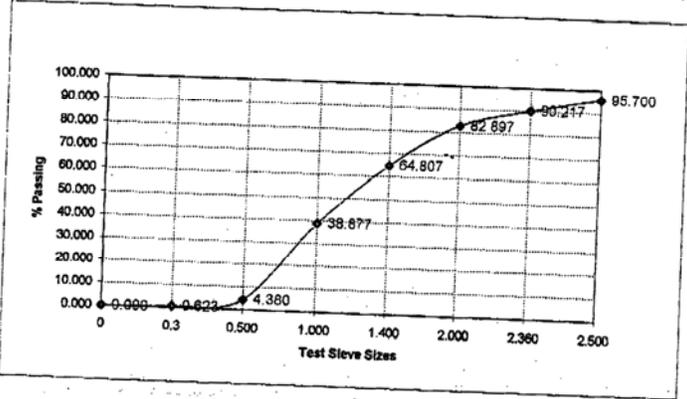
a) Sample Sieve Analysis Report :

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### Sieve Analysis Test Report

Product **HD+**      Size **0.5-2.5**      Date **15.06.04**  
 Batch No  
 Packing **Pallet**  
 Inspection **Final**  
 Produced in **Main Plant**



Test Sieves Size	Gross Weight(gm)	Container Weight(gm)	Nett Weight(gm)	Retention %	Passing %	OA/SP/01/2.1
0	258.120	256.250	1.870	0.623	0.000	
0.3	328.371	317.100	11.271	3.757	0.623	10%Max(Passing)
0.500	431.839	328.350	103.489	34.496	4.380	
1.000	459.640	381.850	77.790	25.930	38.877	
1.400	444.920	390.850	54.270	18.090	64.807	
2.000	428.660	406.700	21.960	7.320	82.897	
2.360	424.500	408.050	16.450	5.483	90.217	
2.500	416.550	403.650	12.900	4.300	95.700	5%Max( Retension)
			300.000	100.000		

Tested By  
  
 QC Engineer

P-10-01

885 1003

b) MSDS for OMGRIT HD+ Copper Slag abrasives

ATTN: MR. SRINI



MATERIAL SAFETY DATA SHEET

**OMGRIT HEAVY DUTY PLUS (HD+)**

Company Details:

Company	Oman Abrasives LLC	
Address	<b>Factory</b> P. O. Box 99, Postal Code 311, Sohar, Sultanate of Oman	<b>Marketing Office</b> P. O. Box 17392, Jebel Ali, Dubai, United Arab Emirates
Telephone #	++ 968 669424/5/7/8	++ 9714 883 9394
Fax #	++ 968 669429	++ 9714 883 9395

Product Name	: Copper Slag	UN Number	: None Allocated
Other Names	: No other names	Hazchem Code	: None Allocated
		Dangerous Goods	: None Allocated
		Class and Sub-risk	: None Allocated
		Poison Schedule	: Not Scheduled

Manufacturer's Product Code : **OMGRIT HD+**  
Size Range : **0.5 - 2.5mm**

Use : **Grit Blasting Material**

Physical Description / Properties

Appearance	: Black Granular Solid
Flashpoint (°C)	: Not Relevant
Boiling Point / Melting Point (°C)	: Not Relevant
Flammability Limits (%)	: Not Relevant
Vapour Pressure (Pascals or mm of Hg at 25°C)	: Not Relevant
Solubility in water (g/L)	: Non-soluble



## MATERIAL SAFETY DATA SHEET

### OMGRIT HEAVY DUTY PLUS (HD+)

#### Other Properties

Hardness	: 6-7 Mohs
Chlorides	: <25 ppm
Conductivity	: <25 mS/m
pH	: 7
Bulk Density at 25°C	: 1.75 Tonnes/m <sup>3</sup>
Specific Gravity at 25°C	: 3.5 kg/m <sup>3</sup>

#### Ingredients

Chemical Entity:	Proportion by Weight: (Typical)
Silica (Combined as Silicate) SiO <sub>2</sub>	: 35%
Quartz (Free Silica)	: <1.0%
Iron as Oxides FeO/Fe <sub>3</sub> O <sub>4</sub>	: 50%
Aluminium Oxide Al <sub>2</sub> O <sub>3</sub>	: 5%
Calcium Oxide CaO	: 5%
Arsenic	: <0.05%
Lead	: <0.05%
Cadmium	: <0.005%
Nickel	: <0.10%
Cobalt	: <0.05%
Chromium	: <0.30%
Copper CuO	: 0.5%
Zinc ZnO	: 0.5%

#### Health Effects:

Acute	: Swallowed	: No health hazard
	Eye	: Mechanical irritant
	Skin	: Direct contact with material under pressure will abrade or damage skin
	Inhale	: May irritate if exposure is excessive



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## MATERIAL SAFETY DATA SHEET

### OMGRIT HEAVY DUTY PLUS (HD+)

Chronic : Nuisance-Dust - Prolonged exposure to high level may have debilitating effect on the longs.

First Aid : Swallowed : Not Applicable  
Eye : Remove foreign body; flush with water  
Skin : Clean and dress open wounds  
Inhale : Move to fresh air  
First Aid : General first aid equipment for treatment of  
Facilities : cuts and abrasion.

Advice to Doctor : Not Applicable

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#### Exposure Standards

Quartz (respirable) 0.1mg/m<sup>3</sup> (8-hour TWA)

Inspirable Dust 10mg/m<sup>3</sup> (8-hour TWA)

#### Engineering Controls:

- Ensure ventilation is adequate to maintain dust exposure below the exposure standard for personnel adjacent to the grit blasting area.
- If ventilation is not adequate use wet blasting technique or enclose blasting area.

#### Personal Protection:

Operator must wear an airline respirator of a type complying with OSHA, a hood or helmet, a jacket or protection suit and hand and foot protection.

#### Flammability:

Not flammable under conditions of use.

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## MATERIAL SAFETY DATA SHEET

### OMGRIT HEAVY DUTY PLUS (HD+)

**Storage and Transport:**

No special storage or transport requirements necessary.

**Spills and disposal:**

No special spill and disposal procedures.

**Fire/explosion hazard:**

As with any dust there is the potential for a dust explosion and thus ventilation should be such that gross levels of dust do not accumulate.

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**Other Information:**

Care should be taken when Grit is recycled as this will enhance the generation of respirable particulate. Recycling more than twice is not recommended.

**Contact Point:**

Mr. Arijit Das, General Manager  
Oman Abrasives LLC, Tel: Dubai - 04- 8839394

B)List of the previous pipeline projects for which OMGRIT has been supplied :

(We are enclosing two copies of purchase orders from two most reputed pipeline contractors of United Arab Emirates : M/s Consolidated Contractors International Ltd. (CCIC) for their North East Bab Phase 1 Development Project and M/s DODSAL for their Buhasa Project in Abu Dhabi)

30-114K-2005 10/45 FROM CCC - NEB سرقة الحصاد التعاوني العالمية ش.م.ن. 048839395 P.01/01  
**CONSOLIDATED CONTRACTORS INTERNATIONAL COMPANY S.A.L.** Date Printed: 30/03/05  
 Tel: 02-5851667, Fax: 02-5851105, P.O. Box 224, Abu Dhabi, U.A.E.  
 NORTH EAST BAB PHASE 1 DEVELOPMENT PROJECT طلب شراء محلي  
**LOCAL PURCHASE ORDER** Date: 30/03/05  
 L.P.O. No. 2569 REV. 0 PAGE: 1

To: OMAN ABRASIVES LLC  
 Please supply the following and debit to our account. TEL: 04 8839394 FAX: 04 8839395  
 الرجاء تزويدنا بالمستلزمات وتسجيل الأمان وتسجيل الحسابات

البند Item	Material Code Requisition No.	Description التفاصيل	الوحدة Unit	العدد Qty.	سعر الوحدة Unit Price DHS. درهم	القيمة Amount DHS. درهم
1	11101705-000690-NE B1 ST-0480-1	GRIT, TYPE: OMGRIT COPPER SLAG, 0.2 - 2.36MM TO ACHIEVE ANCHOR PROFILE 50-100 MICRON AND CLEANLINESS LEVEL OF SA 2.5 - 50 KGS BAG IN 2 TON PALLETS SHRINK WRAPPED.	TON	200.000		
					SUB-TOTAL:	
					DISC : 0.00 %	
					NET-TOTAL:	
<p>MR. Mansour</p> <p><b>URGENT</b></p>						

**Special Instructions :**

**Delivery Point:** HMEEM **Payment:**

PROVIDE BATCH CERTIFICATE W/ EACH DELIVERY .  
 CONTACT: MR.IMTIAZ 050 7810673

PLS SIGN HERE RECEIPT OF THIS LPO AND FAX TO US IMMEDIATELY. Sign :

*Signature*

عن شركة إتحاد المقاولين العالمية ش.م.ل. For CONSOLIDATED CONTRACTORS INTERNATIONAL CO. S.A.L.

**هام :** الرجاء تسليم فواتيركم مع ذكر رقم طلب الشراء عليها مباشرة عند تسليم المواد أو البضائع  
**Important :** Invoices are to be submitted, showing the P.O. No. IMMEDIATELY upon delivery of goods or materials  
 TOTAL P.01



Dodsal Pte. Limited

P. O. Box 8034, Dubai, United Arab Emirates  
 Tel. : (9714) 3431515 Fax : (9714) 3434757 E-mail : dodsal@emirates.net.ae

**PURCHASE ORDER**

Req. No.	52/1004	PO. No :	1429/BUH/2005
Proj.	52	Date :	04/05/2005
To.	OMAN ABRASIVES	Quot. / Ref No. :	REPEAT ORDER
Attn.	MR.MANMOHAN,FAX:04-8839395	Party Code :	O044
		GPC No :	BUH/864

We are pleased to place our Purchase Order on you for the following

All Figures in (AED)

No	Description	Quantity	Rate	Amount	Fin. Code
1	COPPER SALG GRIT 0.2 TO 1MM PRODUCT OMGRIT TURBO	440.000 TON			
Discount				0.000	
Total					

1. PO Number should appear in all communications
2. Invoice should be submitted with a copy of the PO and Delivery Order
3. Delivery : ON CALL BASI BUHASA SITE
4. Payment Terms : 60 DAYS FROM THE DATE OF DELIVERY AND CERTIFICATION OF INVOICE
5. Special Conditions :

For Dodsal Pte. Limited

Project - ADCO - Buhaga Facility Development Projects.  
 CONTRACT NO - 3000004892 - MECHANICAL WORKS  
 CONTRACT NO - 3000004893 - CIVIL WORKS.

Authorised Signatories

