

# SGS Pakistan (Private) Limited

H-3/3, Sector 5, Korangi Industrial Area,  
Karachi-74900, Pakistan  
Tel : 92-21-111-222-747  
: 92-21-35121388-95  
Fax : 92-21-35121386



# SGS

AFFILIATE CODE 590201

**Certificate No.: M009257**

**ORIGINAL**

Our Ref.: MINE – 2122 (Q) / 2012  
Oct 31, 2012  
Page 02 of 02

**COMPOSITE SAMPLE PREPARATION** : At SGS Lab, composite bulk sample was further mixed, crushed, reduced and pulverized in order to obtain representative shipment sample in 05 sets duly labeled and sealed by SGS plastic seal.

**SAMPLE DISTRIBUTION** : Following is the distribution of prepared shipment samples:  
01 of 05 sealed sample submitted in SGS lab for the analysis on **official parameters**  
02 of 05 of 05 sealed samples handed over to shipper  
05 of 05 of 05 sealed samples retained with SGS for the period of 03 months from sampling date, unless otherwise instructed

**CHEMICAL ANALYSIS** : Results obtained from our Lab are reproduced as under,

PARAMETER	METHOD	UNIT	TEST RESULT
Chromium Oxide (Cr <sub>2</sub> O <sub>3</sub> )	Based on ISO 6331-1983 (E)	%	43.62
Silica (SiO <sub>2</sub> )	Based on ISO 5997-1984 (E)	%	07.10
Alumina (Al <sub>2</sub> O <sub>3</sub> )	Based on ISO 6331-1983 (E)	%	11.76
Magnesium Oxide (MgO)	In-house (AAS-Flame)	%	17.00
Phosphorous (P)	In-house (Colorimetric)	%	0.002
Sulphur (S)	In-house (Gravimetric)	%	<0.01
Moisture	In-house (Gravimetric)	%	00.32
Cr : Fe	Calculated	-	3.00:1

**SIZE ASSESSMENT** : Overall size assessment of the tendered cargo ascertained as under,

**0 - 150 MM** : 71.80 %  
**0 - 10 MM** : 28.20 %

**STUFFING AND WEIGHING** : The cargo stuffed in 33 containers of 20ft in our presence and weighed at shipper's weighbridge.

▪ Total Net weight of cargo ascertained at weighbridge : 917.400 MT

The consignment from which the samples were collected had a nominal top size of over 150 millimeter. While the sampling method was agreed upon by all parties to this certificate, due to the limited ability to extract representative increments from the cargo, the samples collected will not necessarily be representative of entire cargo. SGS has no responsibility and/or liability for the consequences of any action taken or not taken on the basis of this certificate.

The responsibility for the above findings is limited to time, date and place of intervention only.

This certificate consists of two (02) pages only and is NOT VALID unless each page bears the following signatures and SGS seal.

**SGS PAKISTAN (PRIVATE) LTD**



This document is issued, on the Client's behalf, by the Company under its General Conditions of Service printed overleaf. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

SGSPAPER  
12460990

