



NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
Central Unit For Analysis And
Scientific Services (CUASS)
Material Test Lab.

المركز القومي للبحوث

الدقى . القاهرة . جمهورية مصر العربية
وحدة التحاليل والخدمات العلمية المركزية
معمل اختبار المواد



Test Report

Report No.	MOI 1068 03 2019
Client	Tri-chem Construction chemicals
Authority & date	Request Orders Date 27/3/2019
Items Tested	Tri-Metal Top, according to ASTM D4060
Results	The detailed test results are given on the following pages of this report (3 pages) .
Report Typist	* Mis. Naglaa Mohamed-Sara Abdel Reheam
Test carried and supervised by	* Mis. Fatma El – Zahraa Fikry * H.Eng. Ahmed Said * Chem. Amr El Shafey * Dr. Abou El Ftouh Abd El Hakem
Authorized by	Prof. Dr. Mostafa Zaki Mostafa * The Supervisor of Ceramics, Polymer and Solid Matter Department. * Management Representative and Quality Assurance Manager.
Issue date	13/5/2019
Condition of Test & Issue	The test speciemen was conditioned at 23 °C with a humidity of 60 % and the needed calibrations as well as balancing of the all used machines were always done .

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To / Tri-chem Construction chemicals

Dear Sir.,

With correspondence to your request dated 27/3/2019 concerning the sample of Tri-Metal Top , We would like to inform you that the all following needed test, were carried out which namely:-

1- Abrasion Resistance test according to ASTM D4060 .

We would like to inform you that the all needed tests were carried out taking into consideration the following conditions :

- 1- In Abrasion resistance machine type Models 505 DUAL APRASION Tester.
- 2-Weighing Balance with tolerance + 0.0001 g was used in determining the weights
- 3- The all used Machinery and the apparatus were calibrated periodically .

The following table gives the obtained results representing the sample applied by your company.

Abrasion Resistance test according to ASTM D4060

CS17 , 1000g , 1000cycle

On a sample of Tri-Metal Top

Delivered from Tri-chem Construction chemicals

No.	Loss of weight standard concert (mg)	Loss of weight Tri metal top (mg)
1	377	107
2	381	109

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*This report was given to you representing only the results for the sample of Tri-Metal Top , Delivered from Tri-chem Construction chemicals, These results and conclusions were given to you without any responsibility on **THE CERAMICS, POLYMERS AND SOLID MATTER DEP.** of **THE MATERIAL TEST LAB** in **THE NATIONAL RESEARCH CENTRE** for pick up the samples to be tested .*

**Head of Director of The Board of Central Department
for Scientific Analysis and Tests**

&

**SUPERVISOR 13
OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT**

PROF.DR. MOSTAFA ZAKI MOSTAFA



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