



Electronics Materials Information

The Semiconductor Industry OEM Market for Ceramic Materials

August, 2011 Report

John C. Housley, Techcet Group, LLC

www.techcet.com

TABLE OF CONTENTS

	<u>Section</u>	<u>Page number</u>
1.	Executive summary	5
2.	Classes of ceramic materials	12
3.	Ceramic Materials	13
4.	WW Market size	21
5.	Primary ceramic components	23
6.	Regional consumption	24
7.	Quality and Distribution	25
8.	Market consolidation	27
9.	Major ceramic component suppliers	28
10.	Ceramic Materials Requirements	30
11.	OEM Expectations	34
12.	References	36

LIST OF TABLES

1. Ceramic Materials properties
2. Individual OEM process modules
 - a. Etch
 - b. CVD, PVD, ECP
 - c. RPT, EPI
 - d. Ion Implant
 - e. Lithography/Inspection
 - f. CMP
 - g. General
3. WW estimated market size
4. Regional markets for Ceramic OEM components
5. Primary Ceramic components used by OEMs
6. Estimates for new OEM tool consumption
7. Ceramic Supplier offerings
8. Sample High Purity Products

This report deals with ceramics such as Al₂O₃ and ALN used in the semiconductor industry, primarily by and for OEM suppliers, for sale to wafer fab applications. It does not include specifics for the packaging ceramics (hi-rel) business. While Silicon Carbide (SiC) is considered a ceramic, and is mentioned in this report, Techcet Group publishes a separate report for SiC and for Quartz used in these similar applications.

This report is for the private use of our customers who have purchased it.