

CMH17 STATS

A Statistical Analysis Program for Generating Material Allowables

- Developed and approved by the Composite Materials Handbook - 17 (CMH-17) Statistics Working Group
- Follows the latest statistical analysis guidelines documented in the 2012 Rev G of CMH-17
- Incorporates single point analysis (STAT17) and pooling analysis (ASAP) techniques
- Friendly Microsoft Excel user interface allows for standard and customizable A- and B-basis allowable calculations

CMH-17 STATISTICAL ANALYSIS PROGRAM FOR B-BASIS & A-BASIS VALUES

MATERIAL/PROPERTY INFORMATION	
COMPANY	NCAMP DATA
MATERIAL	Dataset 6
PROPERTY	2011 FEB
METHOD	ASTM D3039
ANALYZED BY	<Header information>
PROGRAM	<Header information>
DATE	
OTHER	<OTHER>

DATA INPUT/OUTPUT	
CLEAR HEADER INFORMATION	
CLEAR INPUT DATA	
CLEAR SUMMARY SHEETS	
CLEAR OUTLIERS	
IMPORT DATA FROM .XLS FILE	
PRINT REPORT	
PRINT RESULTS SUMMARY	
PRINT STATISTICS SUMMARY	
SELECT DESTINATION DIRECTORY	\\Documents and Settings\jag\My Documents
SELECT BATCH PROCESSING FILE	\\ASAP\2010\VER 1.1\EXAMPLE DATA SETS.xlsx

COMPUTE BASIS VALUES	
SELECT OPTIONS	
α level for batch equivalence	0.025 (CMH17 rec.)
Factor for overriding Normal distribution	10 (CMH17 rec.)
α level for equality of Variances	0.05 (CMH17 rec.)
Ignore batch equivalence test	no
Ignore Anderson-darling test for Normality	no
Ignore Levene's test for equality of Variances	no
Report Allowables with C.V.'s modified?	yes
Pooling based on	Std. Deviations (CMH17)
Batch process multiple data sets?	no

DIAGNOSTIC TESTS	
CHECK FOR OUTLIERS IN DATA SET AT TEST CONDITION	ETW8
CHECK BETWEEN-BATCH VARIABILITY AT TEST CONDITION	ETA3
CHECK FOR NORMALITY OF DATA SET AT TEST CONDITION	ETW8

CMH STATS DP v2011 1.0
This program computes A- & B-basis values per the procedure outlined in Chapter 8 of CMH-17 Handbook Rev.G.

Features

- No limit on batches or batch size
- Data read from files or manual input
- Diagnostic tests at individual conditions
- Output file contains input and results
- Double precision math

Special Introductory Pricing Available

For more information, visit

<https://www.niar.wichita.edu/cmh17/StatisticsSoftware.aspx>

CMH-17
COMPOSITE MATERIALS HANDBOOK