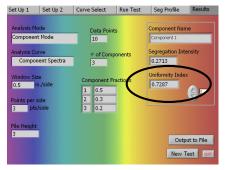


What information do we get from the SPECTester ?

The SPECTester provides the user with three main tools: a segregation intensity number, a uniformity number, and an Excel-ready data base describing the segregation behavior of both the mixture and the individual components as they travel through a process.

The **segregation intensity number** for each individual component indicates how much that ingredient is contributing to the overall segregation occurring within the material mixture. Use the segregation intensity number to determine which component and/or components, in the mixture is/are problematic. This number is between 0 and 1. A segregation intensity number larger than about 0.25 means that specific ingredient is contributing significantly to the segregation issue.

Set Up 1	Set Up 2	Curve Select	Run Test	Seg Profile	Results
Analysis Mc Component Analysis Cur Compon	: Mode	Data Points 10 # of Comp 3		Component Nam Component 1 Segregation Inte 0.2713	
Points per s	ı./side	Component Fra 1 0.5 2 0.3 3 0.2	actions	Uniformity Index	a
Pile Height				Outpu New Te	it to File



The **uniformity number** is the inverse of the segregation intensity number. This number is also between 0 and 1. The uniformity number represents the overall uniformity in concentration of each unique component within the mixture. A larger uniformity number indicates that the ingredient appears through the mixture relatively uniformly. A smaller uniformity number indicates that the ingredient turns up in the mixture pile to a non-uniform degree.

The **Excel-ready data base** (.csv format) can be used to create graphs, tables and charts that describe the segregation behavior (or lack therefore) of the material mixture and the individual ingredients in reports and presentations. This data base can be saved to the internal *SPECTester* computer and/or downloaded via a thumb drive through the USB port on the right side of the tester box.

0.5 0.6 0.7 0.8

0.2 0.3 0.4 Radius

	0.4 0.4 0.2 0.1 0.1		0.11 0.61 0.62	a a a a a a a a a a a a a a a a a a a		¹ ponent Mixt			
0.429	0.381	0.333	0.286	0.238	4 Blue	0.7	0.10 0.05	0.048	

Radius(in)	0.952	0.905	0.857	0.81	s 762	0.714	0.667	0.619	0.571	0.524	0.476	0.429	0.381	0.333	0.286	0.238	Bille	C.	0.10 0.05	0.048
White line	0.393	0.478	0.60 Prof	ile	Ser 11	0.811	0.822	0.828	0.848	0.777	0.768	0.762	0.746	0.71	0.676	0.691	0.646	0.010	~ /	0.551
Yellow line	0.451	Run Tes				0.053	0.063	0.056	0.021	0.082	0.078	0.084	0.08	0.115	0.116	0.119	0.16	0.212	0.188	0.288
Blue line	Curve Selec	Display Leg	and			0.136	0.115	0.115	0.131	0.141	0.153	0.153	0.174	0.174	0.208	0.19	0.195	0.169	0.165	0.161

This graphical segregation profile of a 3-component mixture indicated that two of the ingredients are badactors and contribute significantly to the overall pattern of segregation present in this sample. The third component (blue line) does not present a problem.