

BERTHOLD TECHNOLOGIES USA, LLC 99 Midway Lane Oak Ridge, TN 37830 PHONE (865) 483-1488 FAX (865) 425-4309

Application Data Sheet For:

Concentration & Moisture Measurement with Microwave Systems
LB 566, LB 567 and LB 568
Page 1 of 2

Customer Information			
		D. /	
Project:		Date:	
Company:		Name:	
Street / P.O. Box:			
Postal Code / City:		Country / State:	
Phone:		Fax:	
Email:			
Process Specifications			
Product description			
Chemical composition			
Measured variable	☐ %DS	Weight-%	
Measuring range	min.:	nom.:	max.:
Requested accuracy	<u></u>		Standard deviation
Consistency	liquid	pasty	lumpy
Particle size	refined	coarse	approx. non-varying
Grain size distribution	% in / mm	% in / mm	% in / mm
Abrasion	low	medium	high
(Bulk)density [g/cm^3]	min.:	nom.:	max.:
Product temperature [°C]	min.:	nom.:	max.:
Ambient temperature [°C]	min.:	nom.:	max.:
Electrically conductive	Yes	mS/cm	□
Salt content	constant	Weight%	- -
Power supply	100-240 V AC	24 V DC	-
Ex-classification	Yes Zone/Class:		_ No
Physical Arrangement **	A drawing of the arrangement is v	ery helpful to clarify the project	**
Arrangement Pipeline			
Nominal Width, Flange	mm	Inch	Flange
Pressure range [bar]	min.:	nom.:	max.:
Flow	horizontal	vertical	
Arrangement Belt			
Belt data	Width:	Belt material:	
Belt reinforced (steel)	Yes	No	If yes, please provide sketch.
Belt speed [m/s]	min.:	max.:	constant:
Dumping height [mm]	min.:	nom.:	max.:
Bumping neight [mm]	smooth	Scraper	Leveling
A way a same out Other			1 1 2 2 2 2 2
Arrangement Other			
A sketch of the arrangement is v	rery helpful to clarify the project.		Appendix
Comments:			
			Date: 42/02/2014

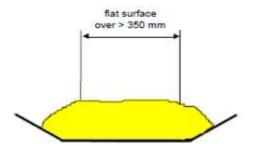


BERTHOLD TECHNOLOGIES USA, LLC 99 Midway Lane Oak Ridge, TN 37830 PHONE (865) 483-1488 FAX (865) 425-4309

Application Data Sheet For:

Concentration & Moisture Measurement with Microwave Systems
LB 566, LB 567 and LB 568
Page 2 of 2

Prefered Measurement

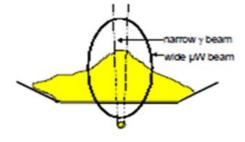


Homogeneous product in measuring path, flattened over at least twice the width of the beam. No gaps or slots in the product.

A heavy, abrasion resistant, hard steel plate is typically used to flatten the top of the product.

Homogeneous material ensures good measurement quality and representative sampling.

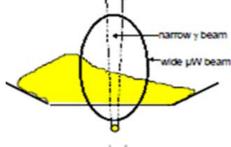
The belt has to be made of non conductive material, without repaired sections, and without steel reinforcement (see special recommendations for using steel-reinforced belts).



Possible Issue:

To much of a peak of product on the belt can cause the microwave (wide) and the gamma ray (narrow) beams to measure different thicknesses. Possible Solution:

Should be able to elimate possible errors by making process changes.

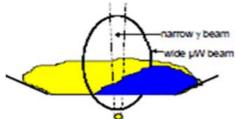


Possible Issue:

Offset peak of product on the belt can cause the microwave (wide) and the gamma ray (narrow) beams to measure different thicknesses.

Possible Solution:

Should be able to elimate possible errors by making process changes.



Possible Issue:

Two or more products not mixed on a belt can cause a sample to be not accurate.

Possible Solution:

Should be able to elimate possible errors by making process changes to run one product at a time.

Still have questions???

Please conatact Berthold Technologies USA at (865) 483-1488 and we will be happy to start a dialog to insure our system can meets all of your specific needs.

Date: 12/03/2011