Coating Cost Control … Why Weight?

Industry Update from Sensory Analytics
Dedicated coating thickness & film weight control focus

The source for SpecMetrix® technology

- Unique optical technique for all can coatings
- Exclusive optical tools available from Sensory

The latest evolution of film weight measurement

- Gravimetric weight methods
  - Capacitance gauging
  - Basic and indirect optical tools
  - Absolute SpecMetrix measurements

Winner of Innovation (Gold) Award – Metpack 2011
Broad Industrial Adoption of SpecMetrix Technology

- Aerospace & defense
- Nanotechnology
- Medical devices
- Electronics
- Plastic packaging
- Rigid packaging
- Metal coils and containers
Opportunities: **Real-Time Coating Process Control**

Reduced plant production costs

- Set-up and change-over times
- Coating consumption
- Waste streams
- Increased production throughput

Improved coated product quality

- All container coatings accurately measured
- Non-contact and immediate thickness results
- Enhanced coating process/QA documentation

Reduced environmental impact & plant footprint
Brodest Range of Metal Packaging Uses

- 2-PC beverage and food containers
- Coated end-stock and metal coils
- Coated flat sheets
- Coatings over all print and colors
- Closures, caps, tabs and ends
- Laminated films to metal substrates
- Aerosol, specialty containers and tubes
Current Range of SpecMetrix® Certified Coatings:

2-PC Beverage

SpecMetrix® systems can measure all internal and external beverage container coatings, including base & rim coats:

- Inside spray
- Over-varnish, even over print or black
- Base coats
- Rim coats
- Tab stock
- Coated end stock
- BPA-free
Current Range of SpecMetrix® Certified Coatings:

3-PC, Flat Sheet, Food, Aerosol, Specialty and Closures

SpecMetrix® systems can measure all internal and external food, aerosol and specialty container coatings, including wash coat and clear, white, gold, gray, aluminized and all coloured coatings:

Clear coatings
Pigmented coatings
  ❖ White
  ❖ Aluminized
  ❖ Coloured base coats
UV and thermal-cured
Water or solvent-based
Roller applied
Wash coats
Impact: Over-Varnish Measurement of 2-PC Containers
Impact: Rim Coat Measurement on Beverage Containers

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Impact: Wash Coat Measurement of D&I Food Cans
SpecMetrix system configurations for metal container plants
Corporate R&D and Plant Coating QA Stations

2-PC Beverage

3-PC, Flat Sheet, Food, Aerosol, Specialty and Closures
2-PC Beverage

ACS Production QA systems

SpecMetrix ACS

Single can evaluations (up to 12 cans)
Full or target area mapping
Over-varnish mapping
Inside spray mapping
Rim coat measurements
Spray nozzle and OV adjustment tool

SpecMetrix A-ACS

Multiple container measurements
Beverage and food container use
Optional colour dot recognition
Manual or conveyor loading/return
Inside spray and OV mapping
In-line inspection of wet or dry flat sheet or end-stock coatings
Single sheet measurement mode for immediate first piece approval
Measures at coating lines speeds of over 600 metres per minute
System probes take up to 20 measurements per second
Running average shown – with all data saved for SPC and/or QA use
Final Thoughts for Consideration ...

- Process improvement can be accelerated with real-time data

- With the right tools, applied coating distribution can now be optimized

- Major dual-benefit opportunity: cost-reductions with improved quality

- Enhanced process control can offer you new opportunities:
  - *SpecMetrix*: an ally in BPAni coating qualifications & supply?
  - *SpecMetrix*: an aid in restricting environmental impact & waste?
  - *SpecMetrix*: an aid for moving from weights to thickness data?
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