TEWS

MEASURABLY BETTER

TEWS – 49 Years of Tradition and Innovation

Figures and Facts

- 2nd generation, family owned company
- 30 years the leading company of microwave moisture and density measurement
- 55 highly professional employees
- 4 locations worldwide
- Operating worldwide

TEWS MW Technology – A Success Story

Around **6,000** TEWS microwave moisture and density measuring devices have been sold up to now

- 60% are process instruments (3,600 units)
- 40% laboratory devices (2,400)

Vast majority of these TEWS devices are still in regular operation

Why Buy a „TEWS“?

Different Case Studies Chemistry

- ✓ 20% energy savings (on average) – due to improved dryer control
- ✓ 75% time savings (on average) – in the lab due to readings within milliseconds
- ✓ 100% long-term stable calibration curve
- ✓ 100% process automation – based on online moisture readings

Why Buy a „TEWS“?

- ✓ Measuring of **surface and core** moisture
- ✓ Precise measurement of **density/weight**
- ✓ Far **more amount of material** is being measured
- ✓ And, a much **higher precision** will be achieved
- ✓ Quality Improvement
- ✓ High speed with up to **40.000** measurements per second

MEASURING METHOD		
Property	Near Infrared (NIR)	TEWS-Microwave Resonance
Mode of operation	Analysis of optical spectral lines	Measurement of resonance shift and attenuation
What can be measured	Moisture, fat, protein, sugar etc.	Moisture & Density
Contact with product	Non-touching	Touching
Depth of penetration	Surface only	Core
Calibration	Complex (modelling)	Simple
Moisture range	Limited, depending on product	Limited, depending on product
INTERFERING FACTORS		
Contactless measurement	✓	⚠
Varying sensor filling level	✓	✓
Independent of salt content of product	✓	✓
Varying product density	✓	✓
Independent of small changes in composition and natural changes	⚠	✓
Varying product color	⚠	✓
Varying product surface structure	⚠	✓
Varying temperature	⚠	✓
Dust / dirty atmosphere	⚠	✓
Black product (light absorbing)	⚠	✓
Ambient light	⚠	✓

Chemistry (powders, flakes, granules, fibers, pellets, boards)

WHERE TO USE

Areas of Application.

Many Kind of Polymers	PVC	SAP	PMMA
Adipic Acid	Rubber	Cellulose Acetate	Fertilizers
Fungicides	Washing Powder	Soap Noodles	Plaster Boards

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