

## Best Practice

### TEWS in the Lab of a Tobacco Primary

With TEWS it takes 30 sec. to prepare a sample, compared to 120 sec. with a conventional drying oven – a saving in time of 75%. With 100 samples per day and 220 working days p.a. the savings sum up to 550 hours p.a. Assuming labor costs of only EUR 25 per hour the savings amount to EUR 13,750. Moreover, the response time for controlling a dryer is reduced dramatically. With an oven it takes at least 30 minutes for the moisture content to be measured. In a tobacco primary manufacturing department with a capacity of 10 tons per hour, five tons of production run through within the measurement time – probably with the wrong moisture. In contrast, with TEWS the measurement result is available within seconds.

### Implementation of an Integrated TEWS Moisture Measurement Concept in a Primary

The target of the project was to significantly reduce the amount of C48 boxes that were filled at the end of the primary with cut tobacco of too high or too low moisture. At the beginning 21,7% of the C48 boxes were rejected. In the end only 5,2% of the boxes were filled with tobacco that was too moist or too dry. Thus, compared to the starting situation we achieved a reduction by 76% of rejects.

### Areas of Application

Farmer Bales

Filled C48 Cardboard Boxes

Leaf Tobacco

Cut Tobacco

Reconstituted Tobacco

Cigarette Paper

White Filter

Multisegment Filter

Filter With Capsules

Cigarettes, Cigarillos, Cigars

All Types and Blends  
Expanded Tobacco

## Advantages of Microwave



Moisture and density measurement



Measurement of core and surface moisture



Simple and longterm stable calibration



Independent of dust or dirt



Helps to reduce CO<sub>2</sub> footprint



Short ROI



ATEX protection possible



Industry 4.0 ready



Online-Cloud-Based support



Worldwide Service

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**TEWS**  
MEASURABLY BETTER



**Tobacco Industry  
As a Partner.**

HIGH PERFORMANCE SOLUTIONS



Your production process combined with our patented solutions. The result: the most accurate data about the moisture & density of your products.

Facts and Figures

Time



faster – in the lab due to readings within milliseconds

Quality



control – from the tobacco bale to the finished cigarette

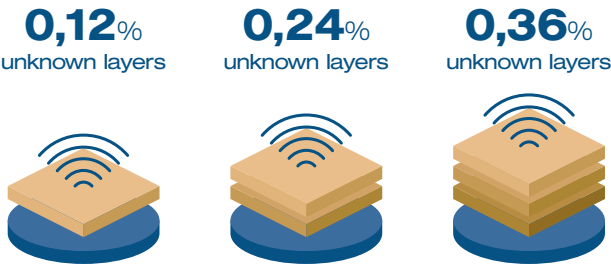
Amortization



year – in a GLT

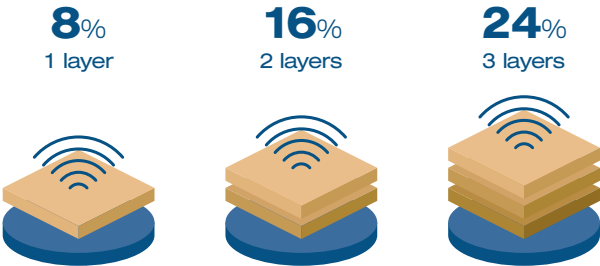
TEWS Measures Moisture and Density Independently

Traditional 1 - parameter - measurement



3 different layers of the same material with a typical 1 Parameter Method: Each layer increases the moisture → **misleading results**

TEWS - 2 - parameter measurement



3 layers of same material show the same moisture, the density is recognized and moisture result compensated → **correct results**

About TEWS

TEWS was founded in Hamburg, Germany back in 1970. Today, the company is owned and managed by André Tews in the 2nd generation of leadership. As the market leader in high performance moisture and density measurement solutions, TEWS is at the center of today's business for almost 50 years, now.

TEWS helps you streamline your processes, giving you the ability to collect and use data by applying a unique patented microwave technique across your production business. When you run TEWS high performance solutions, you run measurably better.

Let's look at your production structure together. And in a new, agile way we exchange, attach, discuss, omit or add knowledge. From this we develop new opportunities together. Bringing them into life brings your business forward at the same time. We call this Co-Improving.

