

USE OF ULTRASONIC ANALYSIS FOR THE QUALITY CONTROL OF GOLD STANDARD LARGE BARS

M. Genel, D. Manara, B. Badiello, A. Pozzi, A. Tessier - Laboratory of Assay and Analysis PAMP Presented by M. Genel



"What you can see and that can be seen it is only shape and colour, what you can ear and that can be heard it is only name and sound. But how can mankind believe that shape and colour, name and sound can be enough to understand the object !..."

Chuang Tzu (370 - 318 a C.)
Chinese philosopher

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International norm

ASTM E1816-07

Standard practice for Ultrasonic Testing Using Electromagnetic Acoustic Transducer

ASTM E797

Practice for measuring thickness by manual ultrasonic pulse-echo contact method

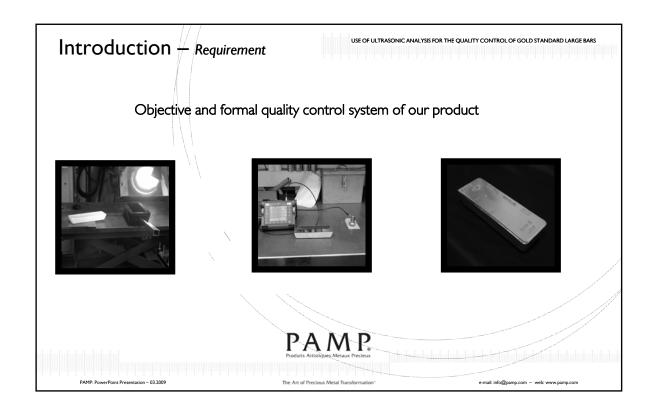
UNI EN 14127:2004

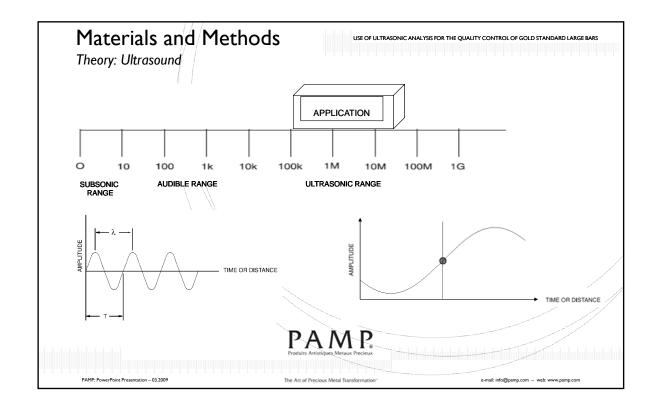
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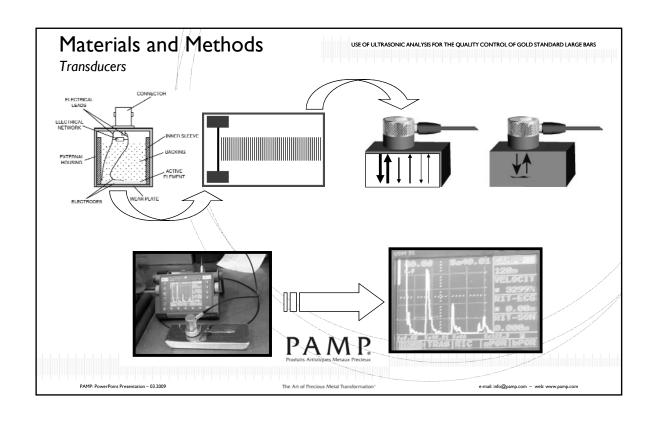
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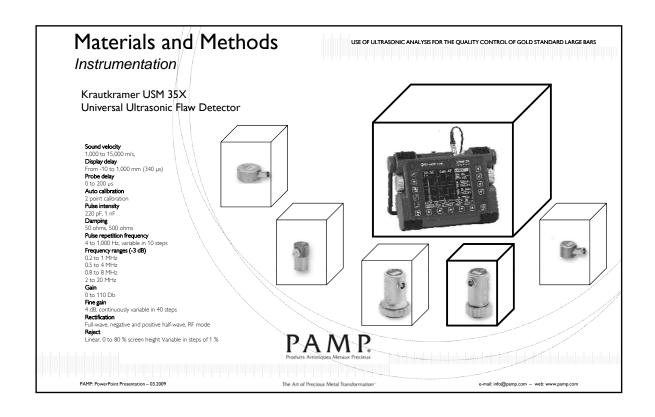
The Art of Process Measurement

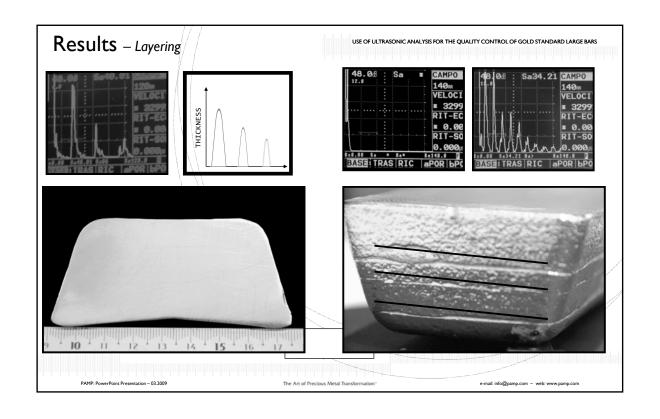
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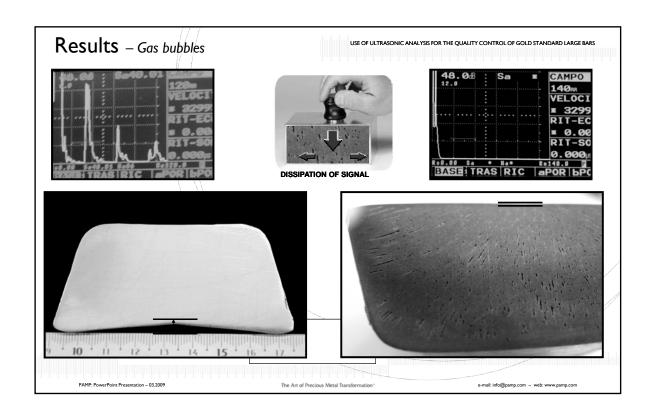


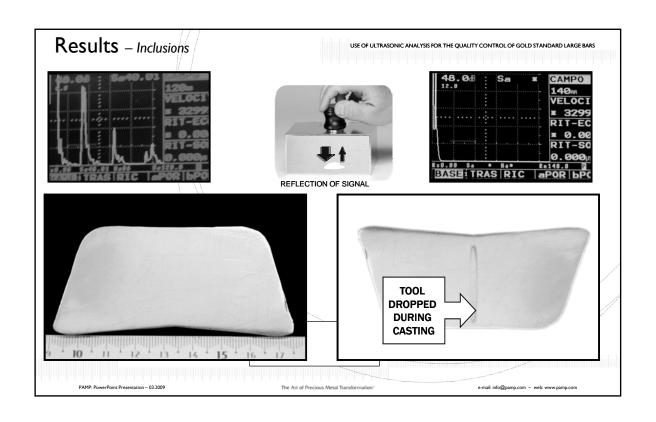


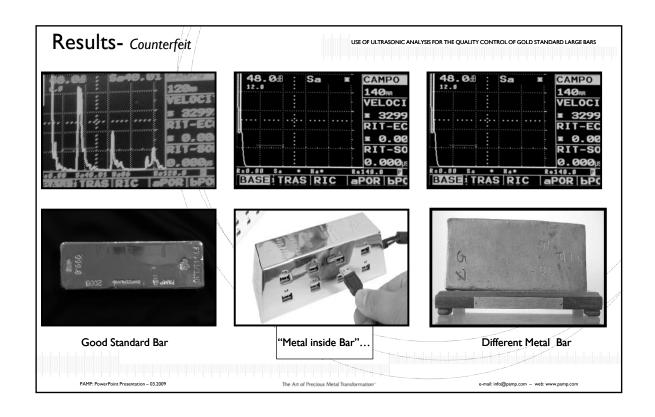












Remarks

USE OF ULTRASONIC ANALYSIS FOR THE QUALITY CONTROL OF GOLD STANDARD LARGE BARS

- Control asked from market
- Continuous quality improvement (ISO 9001)
- Not equivalent check but support routine check
- Not definitive check; if bar has not expected ultrasonic profile, but it comply to routine check, it is remelted or/and it is assigned to other use.

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Conclusion

USE OF ULTRASONIC ANALYSIS FOR THE QUALITY CONTROL OF GOLD STANDARD LARGE BARS

- Rapid method (we check all bars produced)
- Non destructive method
- Quality check of melting and casting
- Market standard controls fitting

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ASTM E1816-07. Standard practice for Ultrasonic Testing Using Electromagnetic Acoustic Transducer

ASTM E797. Practice for measuring thickness by manual ultrasonic pulse-echo contact method

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