

Laboratory for Energetic Materials – RMA – Belgium	PB Clermont - Belgium
OUTLINE	PB
 Introduction Manufacture of nitrocellulose spherical propellant Nitrocellulose spherical propellant Oterrent diffusion Aim Operating procedure Results Deterrent diffusion during ageing Infra-red microscopy Closed vessel test Temperature sensitivity Closed vessel test Ballistic firing 	Lenne,
• Conclusions and way ahead	
5th Inter. Nitrocellulose symposium	Spiez, April 17-18 2012 2
1. Introduction 2. Aim 3. Operating 4. Results	5. Conclusions









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EN	Operating procedure													PB
	Deterrent diffusion during ageing											ageing		
	 Ageing of propellants containing deterrent A or B 80°C 													
	Ageing (day)	1.8	3.0	4.1	7.1	9.0	10.8	13.0	18.0) 25.0	39.0	49.0	56.0	
	71°C													
	Ageing (day)	12.	6 3	0.0	37.0	48.0) 62.5	70.0		98.0	126.0	154.0		
	 Measurement of the deterrent concentration profile (IR microscopy) Measurement of the combustion rate of the different aged propellants (closed vessel tests) 													
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