August 15, 2016

▪TEST REPORT▪

PN 130403

PO CC

Chemical Analytical Services

Prepared For:

Ms. Carrie McCrory
Savvy Rest
4414 Ivy Commons
Charlottesville VA 22903

Prepared by: _____
W. Matthews Ruff
Chemical Technician

Approved by: _____
Ana C. Barbur, Manager
Chemical, Pharmaceutical and Microbiological Services

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August 15, 2016
Ms. Carrie McCrory
Savvy Rest

Subject: Analytical testing on samples submitted by the above referenced customer

Received: Two (2) pieces of foam rubber identified as: Savvy 02 – Dunlop Foam and Talalay 2992 – Talalay Foam

THERMOGRAVIMETRIC ANALYSIS (TGA); ASTM E 1131

Instrument: Perkin Elmer TGA
Gas Purge: Nitrogen, then switch to air at 550°C
Temperature Program: Heat 25 to 850°C at 10°C/min

TGA testing was performed following the test conditions listed above. The TGA plot with calculations is enclosed. In a typical rubber compound, the Highly Volatile equates approximately to oils, process aids, plasticizers, etc; Medium Volatile to polymer(s); Combustible to carbon black; Ash to inorganics.

TABLE 1 - THERMOGRAVIMETRIC ANALYSIS (TGA)

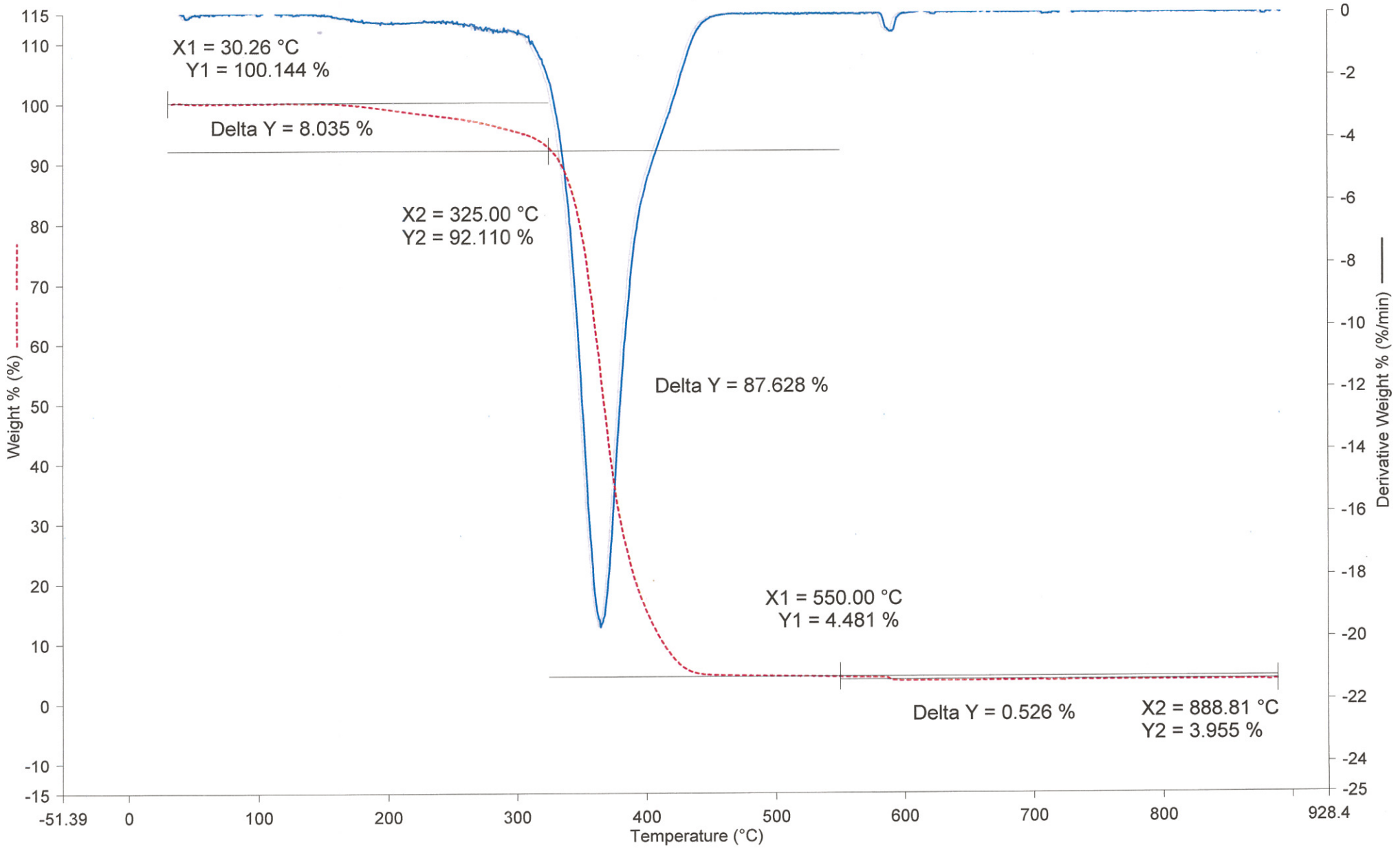
SAMPLE	Highly Volatile, % Weight Loss (25-325°C, N_2 atmosphere)	Medium Volatile, % Weight Loss (325-550°C, N_2 Atmosphere)	Combustible, % Weight Loss (550-850°C, O_2 Atmosphere)	Ash, % Weight
Talalay 2992 – Talalay Foam	8.035	87.628	0.526	3.955
Savvy 02 – Dunlop Foam	8.102	84.735	0.774	6.424

Prepared by: **W. Matthews Ruff**
Chemical Technician

Approved by: **Ana C. Barbur, Manager**
Chemical, Pharmaceutical and Microbiological Services

PN 130403
WMR/AB/tkr

Filename:	C:\Prog...\PN130403 Savvy; Talalay 2992.t6d
Operator ID:	WMR
Sample ID:	Talalay 2992
Sample Weight:	3.345 mg
Comment:	PN130403 Savvy; Talalay 2992



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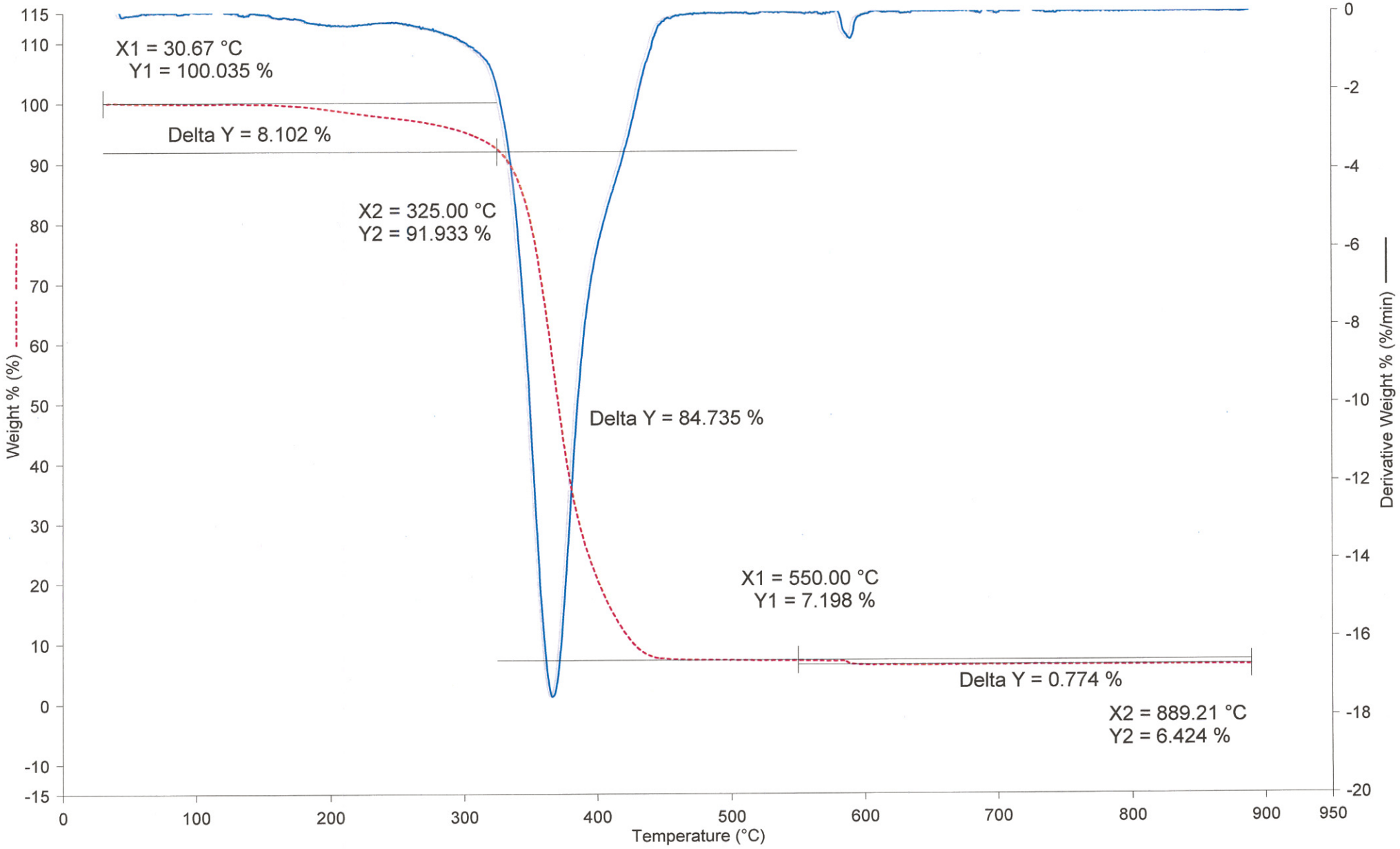
1) Heat from 30.00°C to 500.00°C at 10.00°C/min
2) Heat from 500.00°C to 850.00°C at 10.00°C/min
3) Heat from 850.00°C to 860.00°C at 10.00°C/min

Filename:	C:\Program ...\PN130403 Savvy; Savvy 02.t6d
Operator ID:	WMR
Sample ID:	Savvy 02
Sample Weight:	4.656 mg
Comment:	PN130403 Savvy; Savvy 02



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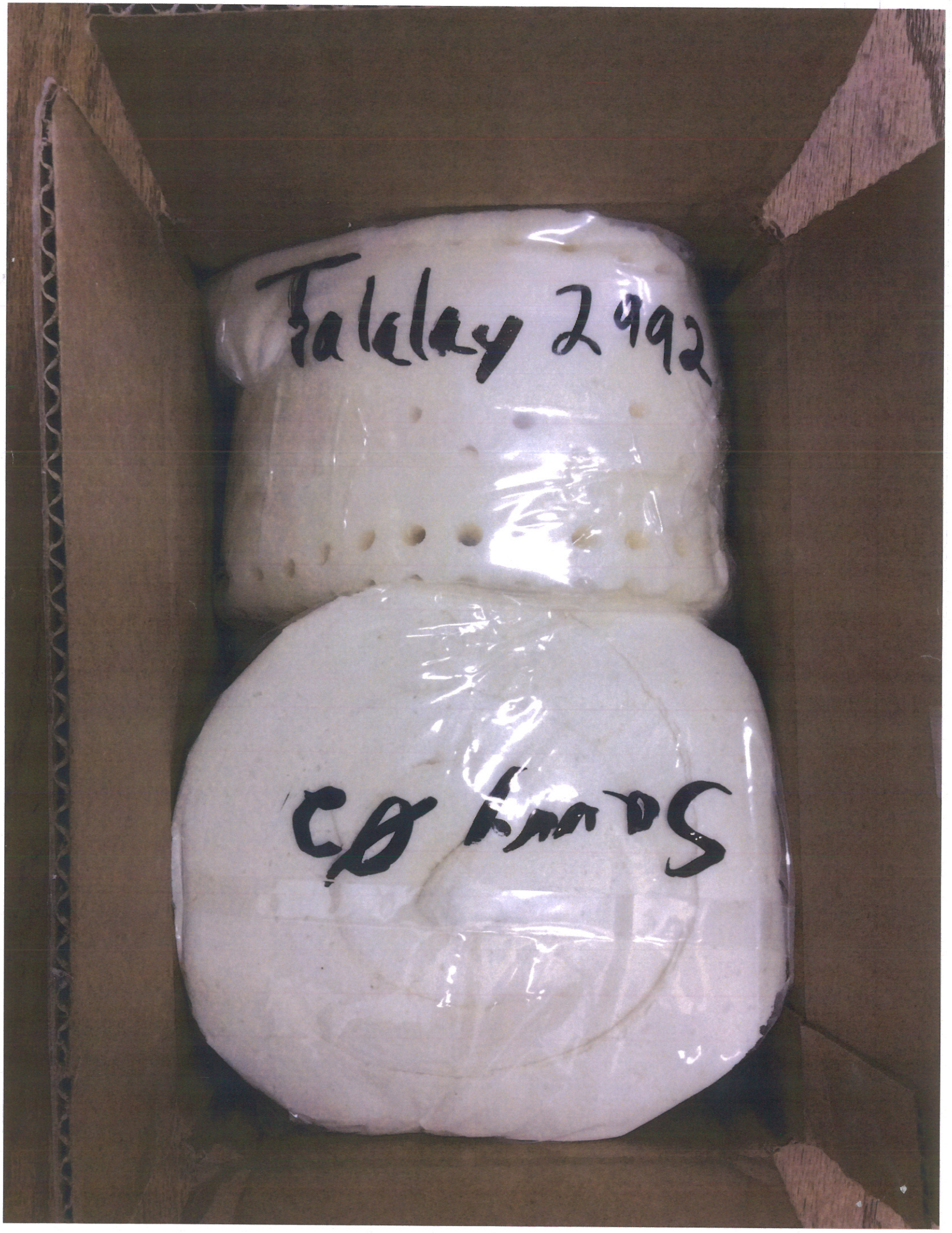
1) Heat from 30.00°C to 500.00°C at 10.00°C/min
2) Heat from 500.00°C to 850.00°C at 10.00°C/min
3) Heat from 850.00°C to 860.00°C at 10.00°C/min


Falclay 2492