

Prepared by: Chris Plemons ASNT No. 195306 Level III

Carestream



Processing Conditions:

Automatic Film Processing using **Carestream** Developer and Fixer - 100 Second (8 Minute) Cycle at 26°C (79°F)

Film Type	Dose (mGY)	Gradient		Sigma D @ D = 2	Ratio (G/Sigma D)	ASTM E1815 (Type)	ISO 1169901 (Class)	Grain Size
		D = 2	D = 4					
DR50	18.5	4.9	7.9	.015	327	Special	C1	Extremely Fine Grain
M100	10.7	4.7	8.8	.018	261	I	C2	Ultra-Fine Grain
MX125	7.4	4.5	8.0	.021	214	I	C3	Extra Fine Grain
T200	4.4	4.3	7.1	.025	172	I	C4	Very Fine Grain
AA400	2.8	4.3	7.3	.032	134	II	C5	Fine Grain

AGFA

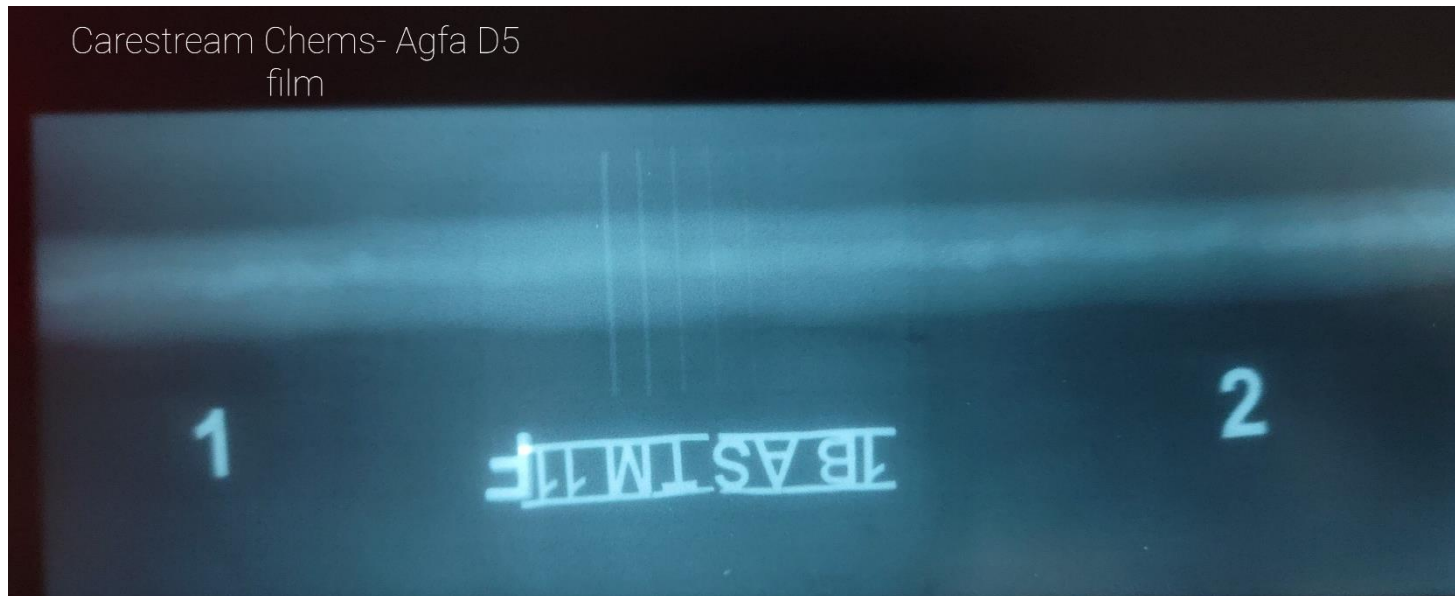
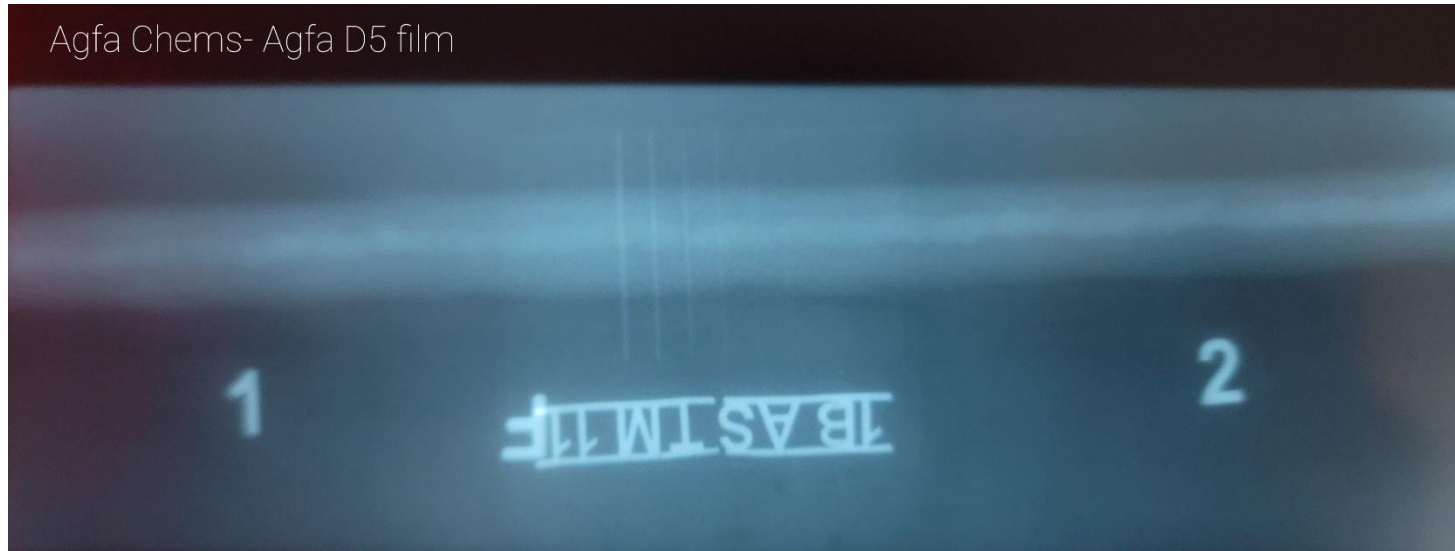


Processing Conditions:

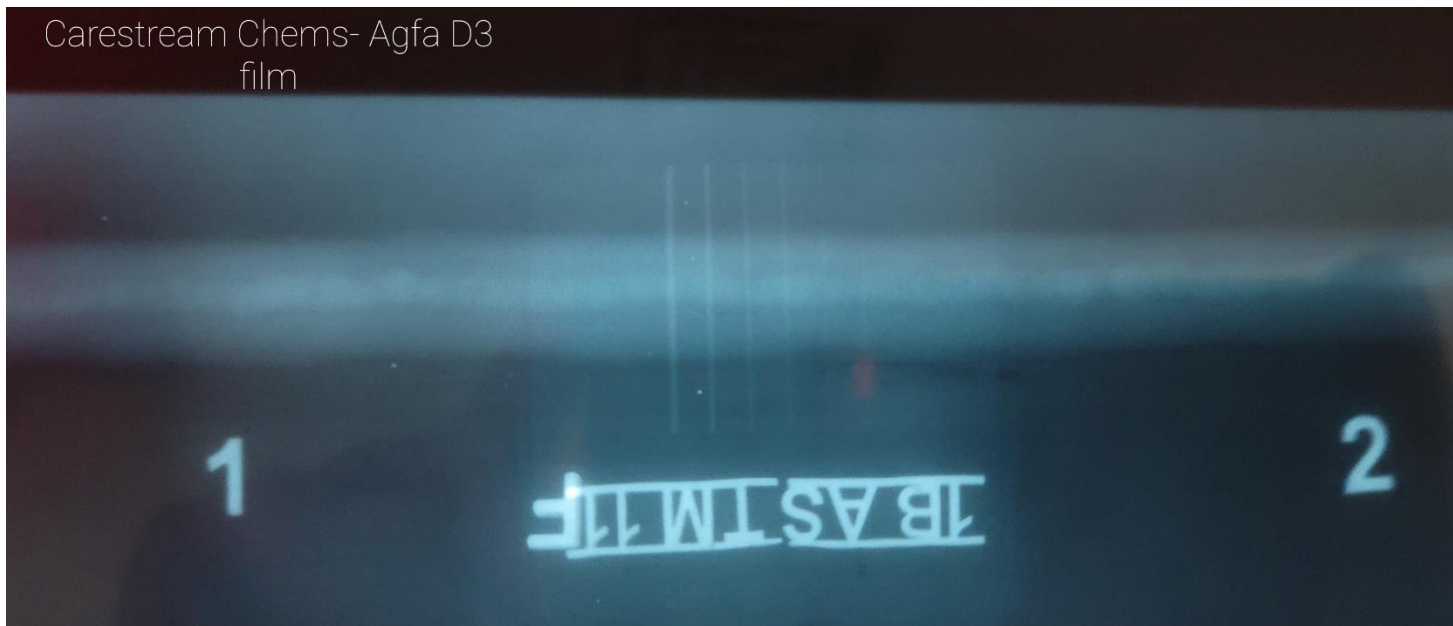
Automatic Film Processing using **AGFA** Developer and Fixer - 100 Second (8 Minute) Cycle at 28°C (83°F)

Film Type	Dose (mGY)	Gradient		Sigma D @ D = 2	Ratio (G/Sigma D)	ASTM E1815 (Type)	ISO 1169901 (Class)	Grain Size
		D = 2	D = 4					
D2	22.3	5.5	9.9	.018	371	Special	C1	Extremely Fine Grain
D3	14.0	5.4	9.7	.020	294	I	C2	Ultra-Fine Grain
D4	8.7	4.7	9.0	.023	232	I	C3	Extra Fine Grain
D5	4.6	4.6	8.0	.028	169	I	C4	Very Fine Grain
D7	3.2	4.5	7.1	.032	142	II	C5	Fine Grain

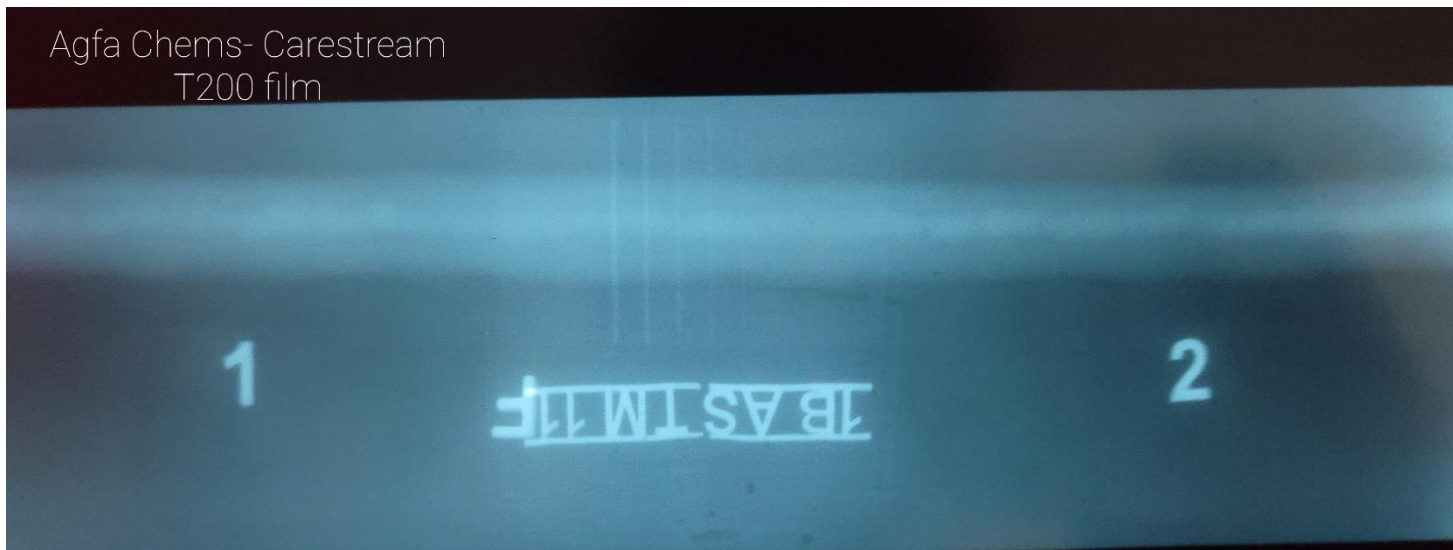
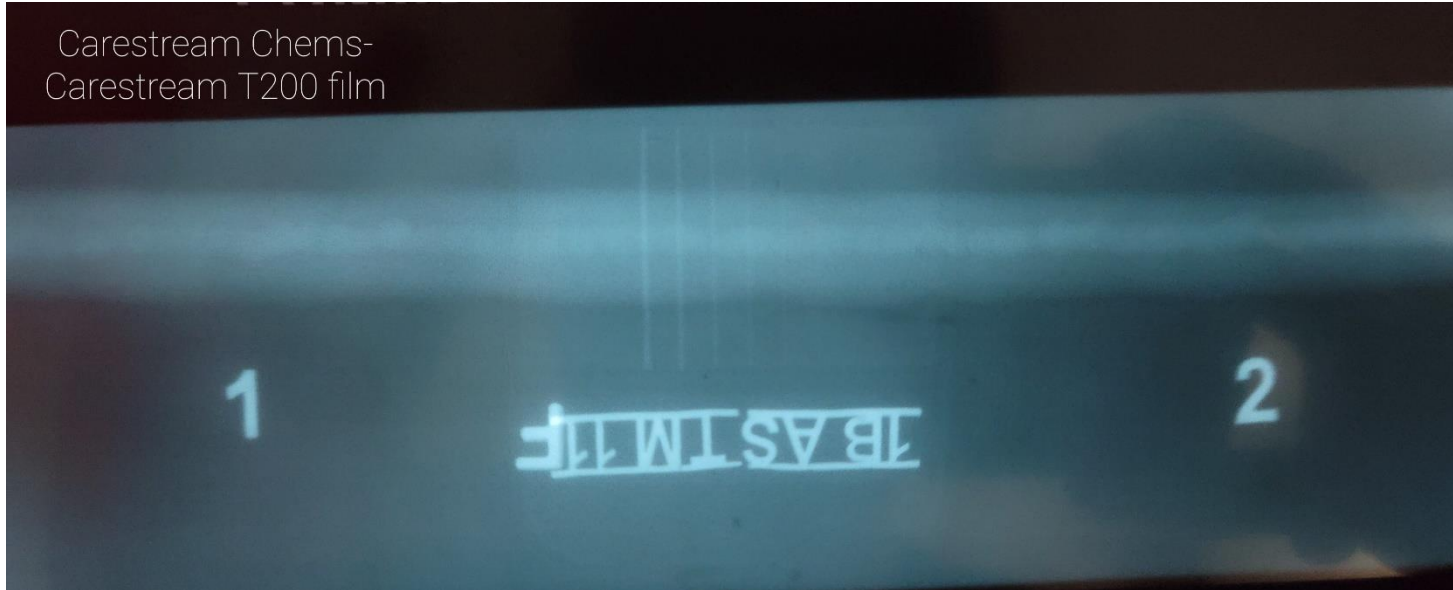
AGFA D5 Comparison:



AGFA D3 Comparison:

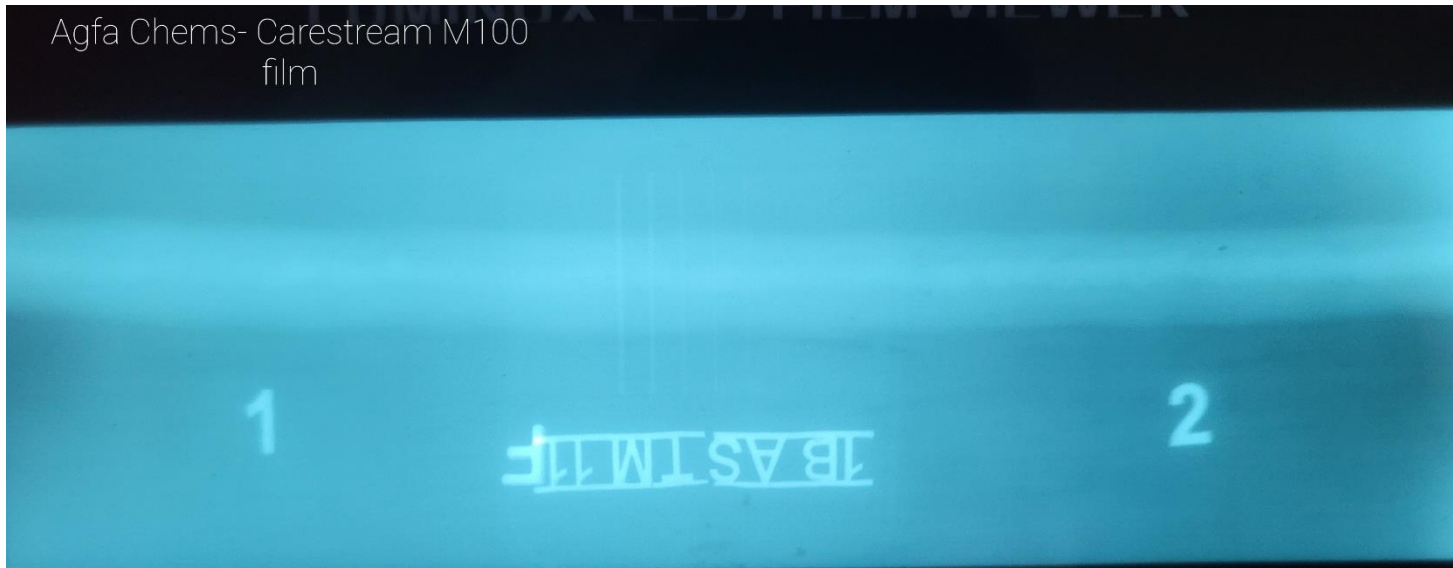
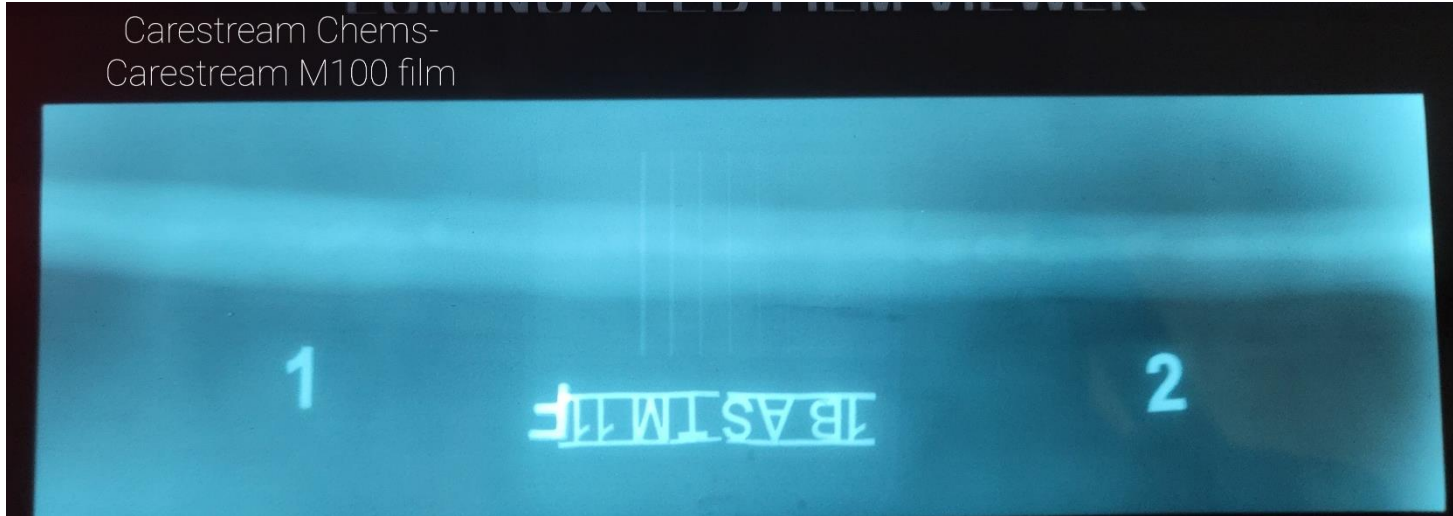


Carestream T200 Comparison:





Carestream M100 Comparison:



Summary/Findings:

There is no appreciable difference between the quality (contrast, sensitivity, latitude), durability, exposure, and processing time of **AGFA** Film/Chemicals and **Carestream** Film/Chemicals.

There is no code or current customer specification that requires the specific use of a certain film brand/manufacturer, the only restriction is the **Type** or **Class** of film to be used.