

TABLE 18.—LABORATORY SEMI-CHEMICAL COOK NO. 2220: PULP-STRENGTH DEVELOPED BY ROD MILL.

	Minutes in Rod Mill ..								
	30	45	60	75	90	105	120	135	150
Bursting-strength	0.02	0.25	0.36	0.46	0.55	0.61	0.66	0.75	0.85
Folding-strength	..	2	3	21	26	49	69	87	195
Tearing-strength	0.63	0.77	0.93	0.96	1.18	1.29	1.14	1.38	1.44

TABLE 19.—PHYSICAL TESTS OF NORTH AMERICAN NEWSPRINT PAPERS.

Mills grouped by Regions.	Weight per ream (24 in. by 36 in. —500).	Thickness.	Apparent Density lb. per ream per point.	Furnish.		Bursting- strength.	Tearing- strength.	Folding Endurance : Machine Direction.		Tensile Strength : Machine Direction.		Stretch : Machine Direction.		Colour.				
				Sulphite.	Ground- wood.			In.	Across.	Average.	In.	Across.	Average.	Red.	Green.	Blue.	White.	
General average	32	0.0036	8.9	26	80	0.28	0.74	6.3	1.5	3.9	4,020	1,930	2,980	1.95	67	62	59	59
	33	0.0037	8.9	27	79	0.28	0.74	5.8	1.4	3.6	4,101	2,040	3,020	1.73	67	61	57	57
	33	0.0037	8.9	25	82	0.27	0.72	5.1	1.5	3.3	3,960	2,040	3,000	1.48	68	63	60	60
East U.S.A. average	32	0.0037	8.6	25	83	0.26	0.65	2.8	0.6	1.7	4,000	1,380	2,690	2.16	..	..	..	..
East Mills No. 1	33	0.0034	9.7	25	83	0.28	0.67	3.8	1.0	2.4	3,870	2,530	3,200	2.62	71	63	59	59
" 2	34	0.0039	8.7	19	86	0.25	0.71	4.6	1.4	3.0	4,030	1,710	2,870	2.30	67	61	58	58
" 3	33	0.0039	8.5	29	75	0.29	0.82	6.6	1.6	4.1	4,190	2,290	3,240	1.14	1.07	65	63	63
" 4	32	0.0036	8.9	..	..	0.30	0.81	12.8	2.6	7.7	4,150	1,690	2,920	0.88	69	63	60	60
" 5	33	0.0037	9.2	..	..	0.30	0.71	5.4	2.2	3.8	3,990	2,710	3,350	1.02	70	64	61	61
" 6	34	0.0040	8.5	22	87	0.23	0.73	3.2	1.6	2.4	3,610	1,730	2,670	1.06	68	64	60	60
" 7	32	0.0037	8.6	29	79	0.27	0.69	2.0	1.0	1.5	3,850	2,230	3,040	0.87	65	61	61	61
" 8	32	0.0037	8.6	32	71	0.28	0.77	7.6	1.1	4.4	4,150	2,040	3,090	2.41	63	56	52	52
West U.S.A. average	32	0.0037	8.6	32	71	0.28	0.77	7.6	1.1	4.4	4,150	2,040	3,090	2.41	63	56	52	52
West Mills No. 9	33	0.0038	8.7	26	78	0.30	0.80	9.4	1.0	5.2	4,540	2,300	3,420	2.77	..	..	..	..
" 10	31	0.0037	8.4	37	64	0.29	0.84	8.2	1.2	4.7	4,240	1,800	3,020	2.32	60	52	46	46
" 11	33	0.0035	9.4	..	..	0.26	0.68	5.2	1.2	3.2	3,660	2,020	2,840	2.14	65	59	57	57
Canadian average	32	0.0035	9.1	26	80	0.29	0.74	7.2	1.8	4.5	4,040	1,770	2,900	2.33	68	64	61	61
East Canadian average..	31	0.0034	9.1	26	82	0.29	0.72	4.9	1.6	3.3	3,750	1,720	2,730	2.37	69	64	62	62
East Mills No. 12	31	0.0029	10.7	..	..	0.28	0.66	5.4	1.4	3.4	4,320	1,880	3,100	2.32	67	62	62	62
" 13	32	0.0035	9.1	..	..	0.32	0.72	7.8	1.6	4.7	3,970	1,770	2,870	2.28	66	63	61	61
" 14	31	0.0037	8.4	..	..	0.25	0.78	2.8	1.6	2.2	3,400	1,560	2,480	2.26	73	69	63	63
" 15	31	0.0038	8.2	26	83	0.31	0.73	5.0	1.6	3.3	3,910	1,630	2,770	2.67	72	67	65	65
" 16	31	0.0033	9.4	26	81	0.29	0.70	3.4	2.0	2.7	3,160	1,740	2,450	2.10	67	61	58	58
West Canadian average	33	0.0037	8.9	25	79	0.31	0.79	13.0	2.1	7.6	4,750	1,890	3,320	2.22	64	60	57	57
West Mills No. 17	33	0.0040	8.3	25	79	0.27	0.86	13.0	2.2	7.6	4,280	1,720	3,000	2.08	..	..	..	..
" 18	32	0.0034	9.4	25	78	0.34	0.71	13.0	2.0	7.5	5,220	2,060	3,640	2.44	64	60	57	57
East U.S.A. and Canadian average	32	0.0036	8.9	25	82	0.28	0.72	5.0	1.6	3.3	3,880	1,910	2,900	1.71	69	64	61	61
West U.S.A. and Canadian average	32	0.0037	8.6	28	75	0.29	0.78	9.8	1.5	5.6	4,390	1,980	3,180	2.22	63	57	53	53