

Polyester/Cotton

C.S.P.

Textile Research Journal 1971	10	B.M.Patel & S. Y. Nanal	"C.S.P.
Correction Factor for Polyester/cotton Yarn"			

Polyester/cotton

C.S.P(Break factor)

Polyester Denier 3.0, 2.0, 1.5

cotton

"SHIRLEY MINIATURE

SPINNING PLANT"

, Usual count 1's

± 2's

가

Usual count

Polyester Denier	Usual count	Range of counts Spun
3.0	32 S 40 S	30, 31, 32, 33, 34 38, 39, 40, 41, 42
2.0	44 S	42, 43, 44, 45, 46
1.5	50 S 80 S	48, 49, 50, 51, 52 78, 79, 80, 81, 82

bobbin 8

, bobbin 1 Lea

<Table 1>

Table

Usual count

Actual C.S.P

Y , count X

Plot

$$32's : Y + 3.2X = 1974$$

$$40's : Y + 8.6X = 2040$$

$$44's : Y + 5.1X = 2057$$

$$50's : Y + 14X = 2731$$

$$80's : Y + 30.7X = 4079$$

<Table 2>

<Table 1> Results and discussions

The average values are given in Table 1

Table 1. Results of C.S.P. and corrections

Polyester den	Usual count	Nominal count	Actual count	Actual C.S.P	Per our factor	
3.0	32	30	30.31	1891	1886	
		31	31.22	1873	1870	
		32	31.97	1886	1886	
		33	33.03	1886	1869	
		34	33.63	1863	1868	
		36	37.97	1732	1715	
	40	39	38.81	1721	1711	
		40	40.16	1727	1728	
		41	41.69	1709	1724	
		42	42.75	1614	1638	
		2.0	42	41.91	1875	1864
			43	43.06	1831	1827
44	44.06		1852	1852		
45	45.13		1850	1856		
46	46.19		1848	1859		
1.5	50	48	47.78	2055	2024	
		49	48.91	2049	2034	
		50	50.31	2017	2021	
		51	51.19	2027	2044	
		52	52.34	1994	2027	
		80	78	77.24	1737	1653
	79		78.69	1672	1632	
	80		80.13	1623	1627	
	81		81.56	1558	1606	
		82	83.19	1518	1616	

<Table 2 > Suggested Correction factors

Denier	Count	Correction factor
3.0	32 _g Tc	3.2
3.0	40 _g Tc	8.6
2.0	44 _g Tc	5.1
1.5	50 _g Tc	14.0
1.5	80 _g Tc	30.7

<Table 2>

) Polyester denier가 가

) Denier 가

<Table 1>

C.S.P

C.S.P

$$C.S.P = A-f (Uc-Ac)$$

A = Actual C.S.P

f =

Uc = Usual count

Ac = Actual count

<Table 1>

C.S.P

가