

## LAMPIRAN

### Lampiran 1 Data perhitungan nomor benang Ne 30 (Tube)

No. Sampel	Rangkaian 6 Satuan Berat (g)	Rangkaian 8 Satuan Berat (g)
1.	2,181	2,146
2.	2,173	2,146
3.	2,113	2,159
4.	2,149	2,167
5.	2,206	2,156
6.	2,141	2,164
7.	2,193	2,185
8.	2,203	2,145
9.	2,133	2,151
10.	2,173	2,177
<b>Jumlah (g)</b>	<b>21,66</b>	<b>21,59</b>
<b>Rata-rata (g)</b>	<b>2,166</b>	<b>2,160</b>
<b>CV (%)</b>	<b>1,4</b>	<b>0,6</b>

#### Perhitungan Rangkaian 6 Ne 30

$$\text{Ne} = \frac{\text{Panjang (hank)}}{\text{Berat (lbs)}} = \frac{\frac{120 \text{ (yard)}}{840}}{\frac{B}{453,6 \text{ (gram)}}} = \frac{120 \times 453,6 \times 1000}{840 \times B}$$

$$= \frac{64.000}{B \text{ (rata-rata)}} = \frac{64.800}{2,166} = \mathbf{29,9}$$

$$\text{Ne Min.} = \frac{64.000}{B \text{ (tertinggi)}} = \frac{64.800}{2,203} = \mathbf{29,4}$$

$$\text{Ne Maks.} = \frac{64.000}{B \text{ (terendah)}} = \frac{64.800}{2,113} = \mathbf{29,7}$$

### Perhitungan Rangkaian 8 Ne 30

$$\begin{aligned} \text{Ne} &= \frac{\text{Panjang (hank)}}{\text{Berat (lbs)}} = \frac{\frac{120 \text{ (yard)}}{840}}{\frac{B}{453,6 \text{ (gram)}}} = \frac{120 \times 453,6 \times 1000}{840 \times B} \\ &= \frac{64.000}{B \text{ (rata-rata)}} = \frac{64.800}{2,160} = \mathbf{30} \end{aligned}$$

$$\text{Ne Min.} = \frac{64.000}{B \text{ (tertinggi)}} = \frac{64.800}{2,185} = \mathbf{29,7}$$

$$\text{Ne Maks.} = \frac{64.000}{B \text{ (terendah)}} = \frac{64.800}{2,146} = \mathbf{30,2}$$

### Lampiran 2 Data perhitungan nomor benang Ne 30 (Cone)

No. Sampel	Rangkaian 6 Satuan Berat (g)	Rangkaian 8 Satuan Berat (g)
1.	2,142	2,184
2.	2,174	2,145
3.	2,129	2,142
4.	2,140	2,168
5.	2,165	2,134
6.	2,192	2,190
7.	2,134	2,193
8.	2,170	2,157
9.	2,137	2,224
10.	2,170	2,154
<b>Jumlah (g)</b>	<b>21,55</b>	<b>21,69</b>
<b>Rata-rata (g)</b>	<b>2,155</b>	<b>2,169</b>
<b>CV (%)</b>	<b>0,9</b>	<b>1,2</b>

### Perhitungan nomor benang rangkaian 6 Ne 30

$$\begin{aligned} \text{Ne} &= \frac{\text{Panjang (hank)}}{\text{Berat (lbs)}} = \frac{\frac{120 \text{ (yard)}}{840}}{\frac{B}{453,6 \text{ (gram)}}} = \frac{120 \times 453,6 \times 1000}{840 \times B} \\ &= \frac{64.000}{B \text{ (rata-rata)}} = \frac{64.800}{2,155} = \mathbf{30,1} \end{aligned}$$

$$\text{Ne Min.} = \frac{64.000}{B (\text{tertinggi})} = \frac{64.800}{2,192} = \mathbf{29,6}$$

$$\text{Ne Maks.} = \frac{64.000}{B (\text{terendah})} = \frac{64.800}{2,129} = \mathbf{30,4}$$

### Perhitungan nomor benang rangkapan 8 Ne 30

$$\begin{aligned} \text{Ne} &= \frac{\text{Panjang (hank)}}{\text{Berat (lbs)}} = \frac{\frac{120 (\text{yard})}{840}}{\frac{B}{453,6 (\text{gram})}} = \frac{120 \times 453,6 \times 1000}{840 \times B} \\ &= \frac{64.000}{B (\text{rata-rata})} = \frac{64.800}{2,169} = \mathbf{29,9} \end{aligned}$$

$$\text{Ne Min.} = \frac{64.000}{B (\text{tertinggi})} = \frac{64.800}{2,220} = \mathbf{29,2}$$

$$\text{Ne Maks.} = \frac{64.000}{B (\text{terendah})} = \frac{64.800}{2,134} = \mathbf{30,4}$$

### Lampiran 3 Data Perhitungan Twist per Inch Ne 30 (Tube)

No. Sampel	Rangkaian 6	Rangkaian 8
1.	22,0	22,3
	22,3	21,7
2.	22,6	21,7
	22,3	21,7
3.	22,0	22,1
	22,7	22,4
4	22,0	22,0
	22,2	21,5
5.	22,5	21,2
	22,6	21,5
<b>Jumlah</b>	<b>223,2</b>	<b>218,1</b>
<b>Rata-rata</b>	<b>22,32</b>	<b>21,81</b>
<b>CV (%)</b>	<b>1,2</b>	<b>1,7</b>

### Perhitungan TM (alpha) rangkaian 6 Ne 30

$$\begin{aligned} \text{TM} &= \frac{\text{Twist per Inch (TPI)}}{\sqrt{\text{Ne}}} \\ &= \frac{22,3}{\sqrt{29,9}} = \frac{22,3}{5,5} = \mathbf{4,0} \end{aligned}$$

### Perhitungan TM (alpha) rangkapan 8 Ne 30

$$\begin{aligned} \text{TM} &= \frac{\text{Twist per Inch (TPI)}}{\sqrt{Ne}} \\ &= \frac{21,8}{\sqrt{30}} = \frac{21,8}{5,5} = \mathbf{4,0} \end{aligned}$$

### Lampiran 4 Data Perhitungan Twist per Inch Ne 30 (Cone)

No. Sampel	Rangkapan 6	Rangkapan 8
1.	22,3	22,9
	22,0	22,6
2.	22,2	22,0
	22,6	22,5
3.	22,3	22,2
	22,7	22,4
4	22,2	23,0
	22,7	22,6
5.	22,0	22,3
	22,3	22,9
<b>Jumlah</b>	<b>223,3</b>	<b>225,4</b>
<b>Rata-rata</b>	<b>22,33</b>	<b>22,54</b>
<b>CV (%)</b>	<b>1,2</b>	<b>1,5</b>

### Perhitungan TM (alpha) rangkapan 6 Ne 30

$$\begin{aligned} \text{TM} &= \frac{\text{Twist per Inch (TPI)}}{\sqrt{Ne}} \\ &= \frac{22,3}{\sqrt{30,1}} = \frac{22,3}{5,5} = \mathbf{4,0} \end{aligned}$$

### Perhitungan TM (alpha) rangkapan 8 Ne 30

$$\begin{aligned} \text{TM} &= \frac{\text{Twist per Inch (TPI)}}{\sqrt{Ne}} \\ &= \frac{22,5}{\sqrt{29,9}} = \frac{22,5}{5,5} = \mathbf{4,1} \end{aligned}$$

#### Lampiran 5 Data perhitungan lea strength Ne 30 (Tube)

No. Sampel	Rangkaian 6 Satuan Berat (kg)	Rangkaian 8 Satuan Berat (kg)
1.	33	35,5
2.	35	34,5
3.	32,5	34,5
4.	35	36
5.	35	35
<b>Jumlah (kg)</b>	<b>170,5</b>	<b>175,5</b>
<b>Rata-rata (kg)</b>	<b>34,1</b>	<b>35,1</b>
<b>CV (%)</b>	<b>3,6</b>	<b>1,8</b>

#### Perhitungan lea strength rangkaian 6 Ne 30

$$\begin{aligned}\text{Lea strength} &= \text{rata-rata} \times 2,2 \text{ (konversi satuan kg ke lbs)} \\ &= 34,1 \times 2,2 = \mathbf{75 \text{ lbs}}\end{aligned}$$

#### Perhitungan lea strength rangkaian 8 Ne 30

$$\text{Lea strength} = 35,1 \times 2,2 = \mathbf{77 \text{ lbs}}$$

#### Lampiran 6 Data perhitungan lea strength Ne 30 (Cone)

No. Sampel	Rangkaian 6 Satuan Berat (kg)	Rangkaian 8 Satuan Berat (kg)
1.	33,5	34,5
2.	33	34,5
3.	33	35
4.	34,5	34
5.	34	35,5
<b>Jumlah (kg)</b>	<b>168</b>	<b>173,5</b>
<b>Rata-rata (kg)</b>	<b>33,6</b>	<b>34,7</b>
<b>CV (%)</b>	<b>1,9</b>	<b>1,6</b>

#### Perhitungan lea strength rangkaian 6 Ne 30

$$\begin{aligned}\text{Lea strength} &= \text{rata-rata} \times 2,2 \text{ (konversi satuan kg ke lbs)} \\ &= 33,6 \times 2,2 = \mathbf{74 \text{ lbs}}\end{aligned}$$

## Perhitungan lea strength rangkapan 8 Ne 30

Lea strength =  $34,7 \times 2,2 = 76 \text{ lbs}$

## Lampiran 7 Data pengujian menggunakan Uster Tester 5 Rangkapan 6 Ne 30 (Tube)

USTER® TESTER 5 - S400 R 5.7 Thu 25.03.21 10:30 Operator RIANA Page 1  
 PT-Sari Warna Asli Textile Industry KUDUS INDONESIA

TU UTS-1 Catalog BENANG Temp 30.7 °C Rel.H 71.7 %  
 Style 30 CD KNT Sample ID 35686 Norm. count Nec 30 Norm. twist 22.3 T/inch  
 Tests 5 / 1 v= 400 m/min t= 2.5 min Meas. slot 4 Short staple Absorber 67 %

**SWA**

Article BOBBIN Material class Yarn Mach. Nr. RF 13  
 Uster Statistics 100% CO, ring yarn, carded, bobbins, knitting, 2013  
 Fiber Cotton 4.3Micr 29mm 100%  
 RANGKAPAN 6

Total tests : 5 / 5 Single test(s)

Nr	U%	CVm	Index	Thin -50%	Thick +50%	Neps +140%	Neps +200%	Neps +280%	Rel. Cnt ±	H	sh	FD	FL
	%	%		/km	/km	/km	/km	/km	%			/km	/km
1	11.46	14.56	1.57	2.0	163.0	1106	191.0	36.0	1.0	5.58	1.21	16.00	0.00
2	11.15	14.17	1.53	1.0	113.0	965	169.0	30.0	1.1	6.10	1.50	12.00	0.00
3	11.31	14.36	1.55	1.0	151.0	1162	224.0	43.0	-0.6	5.41	1.20	23.00	0.00
4	11.42	14.46	1.56	5.0	134.0	1112	213.0	37.0	-1.5	6.01	1.37	14.00	0.00
5	11.53	14.69	1.58	4.0	152.0	1229	244.0	38.0	0.1	5.51	1.22	15.00	0.00
Mean	11.37	14.45	1.56	2.6	142.6	1115	208.2	36.8	-0.0	5.72	1.30	16.00	0.00
s	0.15	0.20	0.02	1.8	19.5	97	29.1	4.7	1.1	0.31	0.13	4.18	0.00
CV	1.3	1.4	1.4	69.9	13.7	8.7	14.0	12.7	1.1	5.5	10.1	26.15	
Q95	0.19	0.24	0.03	2.3	24.2	121	36.1	5.8	1.4	0.39	0.16	5.19	
Max	11.53	14.69	1.58	5.0	163.0	1229	244.0	43.0	1.1	6.10	1.50	23.00	0.00
Min	11.15	14.17	1.53	1.0	113.0	965	169.0	30.0	-1.5	5.41	1.20	12.00	0.00
USP™13		31		< 5	44	41	31	30.0		54	55		

## Lampiran 8 Data pengujian menggunakan Uster Tester 5 Rangkapan 8 Ne 30 (Tube)

USTER® TESTER 5 - S400 R 5.7 Wed 24.03.21 13:33 Operator RIANA Page 1  
 PT. Sari Warna Asli Textile Industry KUDUS INDONESIA

TU UTS-1 Catalog BENANG Temp 30.7 °C Rel.H 71 %  
 Style 30 CD KNT Sample ID 35676 Norm. count Nec 30 Norm. twist 22.3 T/inch  
 Tests 5 / 1 v= 400 m/min t= 2.5 min Meas. slot 4 Short staple Absorber 67 %

**SWA**

Article BOBBIN Material class Yarn Mach. Nr. RF 13  
 Uster Statistics 100% CO, ring yarn, carded, bobbins, knitting, 2013  
 Fiber Cotton 4.3Micr 29mm 100%  
 RANGKAPAN 8

Total tests : 5 / 5 Single test(s)

Nr	U%	CVm	Index	Thin -50%	Thick +50%	Neps +140%	Neps +200%	Neps +280%	Rel. Cnt ±	H	sh	FD	FL
	%	%		/km	/km	/km	/km	/km	%			/km	/km
1	11.28	14.38	1.55	2.0	140.0	1031	218.0	43.0	0.4	5.40	1.19	26.00	0.00
2	11.46	14.55	1.57	3.0	146.0	1117	225.0	55.0	-1.6	5.33	1.17	15.00	0.00
3	11.44	14.57	1.57	4.0	137.0	1029	189.0	48.0	0.7	5.31	1.16	12.00	0.00
4	11.35	14.41	1.55	3.0	119.0	998	177.0	37.0	-1.4	5.50	1.18	14.00	0.00
5	11.37	14.42	1.56	1.0	144.0	972	175.0	34.0	2.0	5.52	1.19	12.00	0.00
Mean	11.38	14.47	1.56	2.6	137.2	1029	196.8	43.4	-0.0	5.41	1.18	15.80	0.00
s	0.07	0.09	0.01	1.1	10.8	55	23.3	8.4	1.5	0.10	0.01	5.85	0.00
CV	0.6	0.6	0.6	43.9	7.8	5.3	11.6	19.5	1.5	1.8	1.2	37.01	
Q95	0.09	0.11	0.01	1.4	13.4	68	28.9	10.5	1.9	0.12	0.02	7.26	
Max	11.46	14.57	1.57	4.0	146.0	1117	225.0	55.0	2.0	5.52	1.19	26.00	0.00
Min	11.28	14.38	1.55	1.0	119.0	972	175.0	34.0	-1.6	5.31	1.16	12.00	0.00
USP™13		32		< 5	42	37	28	34.0		42	37		

**Lampiran 9 Data pengujian menggunakan Uster Tensorapid 4 Rangkaian 6 Ne 30 (Tube)**

TENSORAPID 4 2.7.0 UTR4/ 1500N Thu 25.03.21 09:47 Operator RIANA Page 1  
 RI WARNA ASLI SPN I & II Ds.Besito, KM.6, Kec. Gebog - KUDUS

style BOBBIN Sample ID RY 021639 Nom. count Nec 30 Nom. twist 22.3 T/inch  
 Tests 5 / 5 v= 5000 mm/min Fv= 10 gF Lh= 500 mm Pcl= 30 %

**DAILY**

Article 30 CD KNT Material class Yarn Mach. Nr. RF 20  
 Uster Statistics 100% CO, ring yarn, carded, bobbins, knitting, 2013  
 TEST HARIAN SPG 2  
 (RANGKAPAN 6)

Total : 5 / 25 Single test(s)

Nr	Time to break s	B-Force gF	Elong. %	Tenacity Rkm	B-Work gF.cm
1/5	0.20	277.5	3.40	14.10	288.8
2/5	0.24	327.0	3.95	16.61	379.9
3/5	0.20	282.4	3.32	14.34	289.4
4/5	0.25	299.3	4.10	15.21	343.4
5/5	0.23	290.6	3.81	14.76	335.1
Mean	0.22	295.4	3.72	15.00	327.3
s	0.02	24.96	0.40	1.27	47.18
CV	10.66	8.45	10.69	8.45	14.41
Q95	0.01	10.31	0.16	0.52	19.48
Min	0.17	255.5	2.89	12.98	244.2
Max	0.26	347.2	4.25	17.64	423.1
USP™13		66	>95	66	>95

**Lampiran 10 Data pengujian menggunakan Uster Tensorapid 4 Rangkaian 8 Ne 30 (Tube)**

TENSORAPID 4 2.7.0 UTR4/ 1500N Wed 24.03.21 13:17 Operator RIANA Page 1  
 RI WARNA ASLI SPN I & II Ds.Besito, KM.6, Kec. Gebog - KUDUS

style BOBBIN Sample ID RY 021633 Nom. count Nec 30 Nom. twist 22.3 T/inch  
 Tests 5 / 10 v= 5000 mm/min Fv= 10 gF Lh= 500 mm Pcl= 30 %

**DAILY**

Article 30 CD KNT Material class Yarn Mach. Nr. RF 13R  
 Uster Statistics 100% CO, ring yarn, carded, bobbins, knitting, 2013  
 RANGKAPAN 8

Total : 5 / 50 Single test(s)

Nr	Time to break s	B-Force gF	Elong. %	Tenacity Rkm	B-Work gF.cm
1/10	0.23	308.1	3.83	15.65	340.9
1/10	0.21	293.8	3.46	14.92	303.2
1/10	0.22	295.1	3.69	14.99	321.4
1/10	0.22	304.4	3.61	15.46	328.9
1/10	0.20	271.9	3.30	13.81	275.6
Mean	0.22	294.6	3.58	14.97	314.0
s	0.03	26.10	0.43	1.33	52.30
CV	12.04	8.86	12.07	8.86	16.66
Q95	0.01	7.42	0.12	0.38	14.87
Min	0.16	239.7	2.60	12.18	215.0
Max	0.26	344.2	4.25	17.49	406.6
USP™13		67	>95	67	>95

## Lampiran 11 Data pengujian menggunakan Uster Tester 5 Rangkaian 6 Ne 30 (Cone)

USTER® TESTER 5 - S400 R 5.7 Wed 24.03.21 10:28 Operator RIANA Page 1  
 PT. Sari Warna Asli Textile Industry KUDUS INDONESIA

TU UT5-1 Catalog BENANG Temp 30.8 °C Rel.H 70.3 %  
 Style 30 CD KNT Sample ID 35671 Norm. count Nec 30 Nom. twist 22.3 T/inch  
 Tests 5 / 1 v= 400 m/min t= 2.5 min Meas. slot 4 Short staple Absorber 67 %

**SWA**

Article CONES Material class Yarn Mach. Nr. WD 2  
 Uster Statistics 100% CO, ring yarn, carded, cones, knitting, 2013  
 Fiber Cotton 4.3Micr 29mm 100%  
 RANGKAPAN 6

### Total tests : 5 / 5 Single test(s)

Nr	U%	CVm	Index	Thin -50%	Thick +50%	Neps +140%	Neps +200%	Neps +280%	Rel. Cnt ±	H	sh	FD	FL
	%	%		/km	/km	/km	/km	/km	%			/km	/km
1	11.70	14.81	1.60	0.0	136.0	1214	226.0	23.0	-1.3	6.75	1.56	12.00	0.00
2	11.31	14.33	1.55	4.0	111.0	1311	202.0	24.0	1.3	6.97	1.68	6.00	0.00
3	11.37	14.47	1.56	2.0	100.0	1172	222.0	39.0	-0.4	6.88	1.67	6.00	0.00
4	11.44	14.50	1.56	6.0	113.0	1167	201.0	31.0	0.5	6.67	1.55	12.00	0.00
5	11.47	14.56	1.57	5.0	140.0	1194	206.0	24.0	-0.0	6.98	1.62	10.00	0.00
Mean	11.46	14.53	1.57	3.4	120.0	1212	211.4	28.2	-0.0	6.85	1.62	9.20	0.00
s	0.15	0.17	0.02	2.4	17.2	59	11.7	6.8	1.0	0.14	0.06	3.03	0.00
CV	1.3	1.2	1.2	70.8	14.3	4.8	5.6	24.2	1.0	2.0	3.8	32.97	
Q95	0.18	0.22	0.02	3.0	21.4	73	14.6	8.5	1.2	0.17	0.08	3.77	
Max	11.70	14.81	1.60	6.0	140.0	1311	226.0	39.0	1.3	6.98	1.68	12.00	0.00
Min	11.31	14.33	1.55	0.0	100.0	1167	201.0	23.0	-1.3	6.67	1.55	6.00	0.00
USP™13		34		8	29	45	23			65	37		

## Lampiran 12 Data pengujian menggunakan Uster Tester 5 Rangkaian 8 Ne 30 (Cone)

USTER® TESTER 5 - S400 R 5.7 Thu 25.03.21 10:47 Operator RIANA Page 1  
 PT. Sari Warna Asli Textile Industry KUDUS INDONESIA

TU UT5-1 Catalog BENANG Temp 30.7 °C Rel.H 70.9 %  
 Style 30 CD KNT Sample ID 35687 Norm. count Nec 30 Nom. twist 22.3 T/inch  
 Tests 5 / 1 v= 400 m/min t= 2.5 min Meas. slot 4 Short staple Absorber 67 %

**SWA**

Article CONES Material class Yarn Mach. Nr. WD 2  
 Uster Statistics 100% CO, ring yarn, carded, cones, knitting, 2013  
 Fiber Cotton 4.3Micr 29mm 100%  
 RANGKAPAN 8

### Total tests : 5 / 5 Single test(s)

Nr	U%	CVm	Index	Thin -50%	Thick +50%	Neps +140%	Neps +200%	Neps +280%	Rel. Cnt ±	H	sh	FD	FL
	%	%		/km	/km	/km	/km	/km	%			/km	/km
1	11.44	14.52	1.57	1.0	135.0	1322	215.0	29.0	-0.6	6.87	1.63	10.00	0.00
2	11.66	14.81	1.60	4.0	152.0	1110	186.0	28.0	0.5	6.64	1.55	10.00	0.00
3	11.59	14.70	1.59	4.0	131.0	1199	196.0	30.0	1.0	6.82	1.62	6.00	0.00
4	11.35	14.37	1.55	3.0	104.0	1239	203.0	30.0	-0.2	6.81	1.61	11.00	0.00
5	11.46	14.57	1.57	3.0	132.0	1221	222.0	28.0	-0.8	6.81	1.62	14.00	0.00
Mean	11.50	14.60	1.57	3.0	130.8	1218	204.4	29.0	-0.0	6.79	1.60	10.20	0.00
s	0.13	0.17	0.02	1.2	17.2	76	14.4	1.0	0.8	0.08	0.03	2.86	0.00
CV	1.1	1.2	1.2	40.8	13.2	6.3	7.1	3.4	0.8	1.3	2.0	28.07	
Q95	0.16	0.21	0.02	1.5	21.4	95	17.9	1.2	0.9	0.11	0.04	3.56	
Max	11.66	14.81	1.60	4.0	152.0	1322	222.0	30.0	1.0	6.87	1.63	14.00	0.00
Min	11.35	14.37	1.55	1.0	104.0	1110	186.0	28.0	-0.8	6.64	1.55	6.00	0.00
USP™13		36		5	33	45	22			63	35		



**Lampiran 13 Data pengujian menggunakan Uster Tensorapid 4 Rangkaian 6 Ne 30 (Cone)**

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 ARI WARNA ASLI SPN I & II Ds Besito, KM.6, Kec. Gebog - KUDUS

Style CONES Sample ID RY 021630 Norm. count Nec 30 Norm. twist 22.3 T/inch  
 Tests 5 / 10 v= 5000 mm/min Fv= 10 gF Lh= 500 mm Pcl= 30 %

**DAILY**

Article 30 CD KNT Material class Yarn Mach. Nr. WD 2  
 Uster Statistics 100% CO, ring yarn, carded, cones, knitting, 2013  
 RANGKAPAN 6

Total : 5 / 50 Single test(s)

Nr	Time to break s	B-Force gF	Elong. %	Tenacity Rkm	B-Work gF.cm
1/10	0.23	299.3	3.77	15.20	328.0
2/10	0.22	290.7	3.61	14.77	310.9
3/10	0.19	278.8	3.15	14.17	266.2
4/10	0.20	283.7	3.32	14.41	288.3
5/10	0.20	268.9	3.27	13.66	267.2
Mean	0.21	284.3	3.43	14.44	292.1
s	0.03	25.30	0.45	1.29	58.41
CV	13.01	8.90	13.03	8.90	19.99
Q95	0.01	7.19	0.13	0.37	16.60
Min	0.15	243.2	2.45	12.36	170.0
Max	0.25	340.5	4.16	17.30	390.8
USP™13		62	>95	62	>95

**Lampiran 14 Data pengujian menggunakan Uster Tensorapid 4 Rangkaian 8 Ne 30 (Cone)**

© TENSORAPID 4 2.7.0 UTR4/ 1500N Thu 25.03.21 09:51 Operator RIANA Page 1  
 ARI WARNA ASLI SPN I & II Ds Besito, KM.6, Kec. Gebog - KUDUS

Style CONES Sample ID RY 021640 Norm. count Nec 30 Norm. twist 22.3 T/inch  
 Tests 5 / 10 v= 5000 mm/min Fv= 10 gF Lh= 500 mm Pcl= 30 %

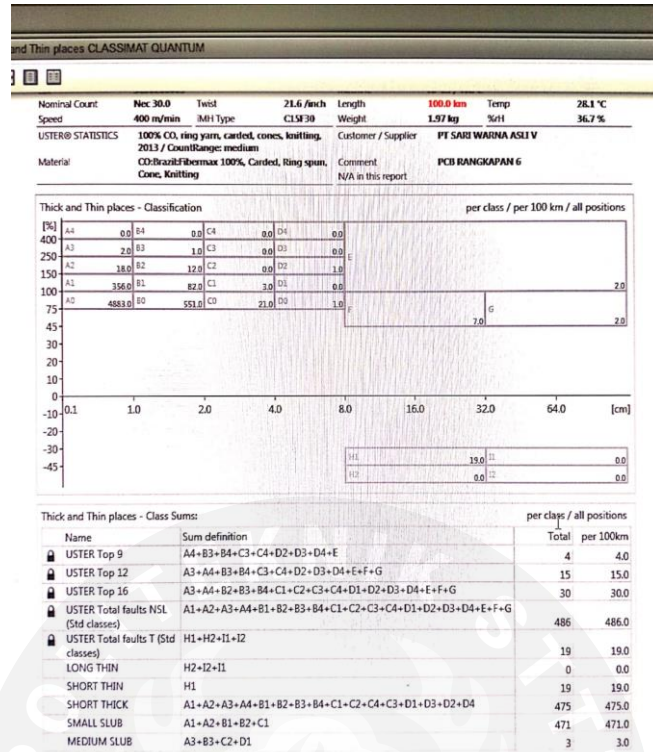
**DAILY**

Article 30 CD KNT Material class Yarn Mach. Nr. WD 2  
 Uster Statistics 100% CO, ring yarn, carded, cones, knitting, 2013  
 RANGKAPAN 8

Total : 5 / 50 Single test(s)

Nr	Time to break s	B-Force gF	Elong. %	Tenacity Rkm	B-Work gF.cm
1/10	0.23	308.3	3.87	15.66	355.0
2/10	0.22	298.7	3.73	15.17	330.7
3/10	0.22	281.6	3.72	14.30	311.6
4/10	0.20	271.4	3.33	13.79	277.6
5/10	0.21	291.6	3.49	14.81	315.7
Mean	0.22	290.3	3.63	14.75	318.1
s	0.03	26.38	0.42	1.34	53.64
CV	11.49	9.08	11.50	9.08	16.88
Q95	0.01	7.50	0.12	0.38	15.25
Min	0.15	239.5	2.42	12.17	175.0
Max	0.26	341.7	4.28	17.36	409.7
USP™13		55	>95	55	>95

Lampiran 15 Data pengujian menggunakan Uster Classimat 5 Rangkaian 6 Ne 30 (Cone)



Lampiran 16 Data pengujian menggunakan Uster Classimat 5 Rangkaian 8 Ne 30 (Cone)

