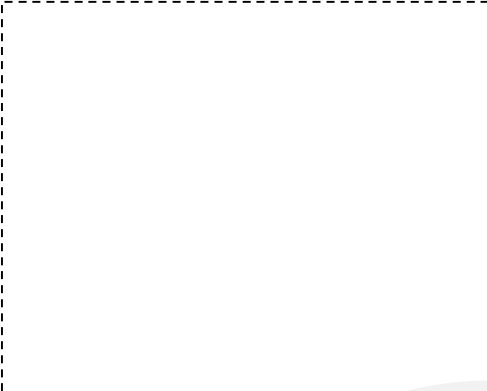

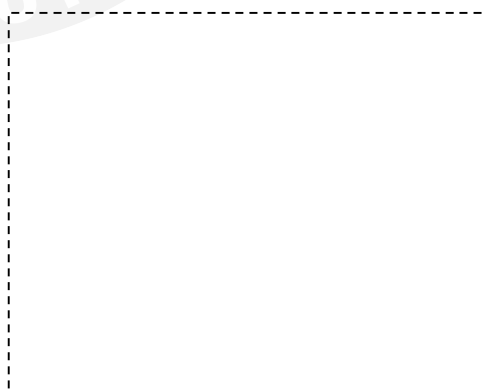




Lampiran 1. Kain hasil penyempurnaan tolak air

Kain Blanko	Kain Hasil Penyempurnaan dengan Konsentrasi Resin 2%
	
Kain Hasil Penyempurnaan dengan Konsentrasi Resin 5%	Kain Hasil Penyempurnaan dengan Konsentrasi Resin 8%
	
Kain Hasil Penyempurnaan dengan Konsentrasi Resin 11%	Kain Hasil Penyempurnaan dengan Konsentrasi Resin 14%
	

Lampiran 2. Penentuan nilai ranking dan bobot setiap pengujian

1. Pembobotan

Nilai pembobotan pada pengujian adalah sebagai berikut:

- Uji siram : 30
- Kekuatan tarik kain : 20
- Sudut kontak : 30
- Kekakuan kain : 20

2. Penentuan Nilai Ranking

Perankingan ditentukan pada hasil pengujian uji siram, kekuatan tarik kain, sudut kontak, dan kekakuan kain. Penentuan ranking dapat dilihat pada Tabel L 2.1 di bawah ini.

Tabel L 2.1 Nilai ranking

Ranking	Nilai Ranking
1	100
2	80
3	60
4	40
5	20

Penentuan nilai ranking ditentukan dari setiap nilai hasil pengujian dimana semakin tinggi nilainya maka ranking akan makin tinggi.

3. Penentuan Nilai optimum

Penentuan nilai optimum dilakukan dengan cara menghitung total nilai dari seluruh hasil pengujian. Total dihitung dengan cara berikut ini:

- Setiap hasil pengujian diberi nilai seperti pada Tabel L 2.1.
- Setiap jenis pengujian yang dilakukan diberi bobot.
- Hitung ranking dari setiap pengujian dengan menggunakan rumus di bawah ini.

$$NR \times B$$

Keterangan :

NR : Nilai ranking

B : Nilai pembobotan tiap jenis pengujian

Tabel L 2.2 Perhitungan Analisa Pengujian

Konsentrasi Resin (%)	NR x B				Nilai Total
	Uji Siram	Sudut Kontak	Kekuatan Tarik Kain	Kekakuan Kain	
2	3000	600	2000	2000	7600
5	3000	2400	1200	1600	8200
8	3000	1200	1600	1200	7000
11	3000	1800	800	800	6400
14	3000	3000	400	400	6800



Lampiran 3. Data hasil pengujian kekakuan kain

Variasi	Kode Kain	Jumlah rata rata lusi	\bar{x} lusi	Rata-rata panjang lengkung lusi	Kekakuan lentur lusi (mg.cm)	Jumlah rata rata pakan	\bar{x} pakan	Rata-rata panjang lengkung pakan	Kekakuan Lentur Pakan (mg.cm)	Kekakuan Total (mg.cm)	Bending Modulus (kg/cm ²)
Blanko	1	1,98	1,88	0,94	7,953	1,51	1,49	0,74	3,919	5,58	16,36
	2	1,84				1,45					
	3	1,84				1,50					
2%	1	1,85	1,91	0,96	8,951	1,58	1,57	0,78	4,921	6,64	14,86
	2	1,91				1,55					
	3	1,98				1,58					
5%	1	1,89	1,88	0,94	8,778	1,53	1,56	0,78	5,046	6,66	15,35
	2	1,88				1,59					
	3	1,88				1,58					
8%	1	1,93	1,90	0,95	8,975	1,60	1,62	0,81	5,492	7,02	15,30
	2	1,91				1,61					
	3	1,88				1,64					
11%	1	2,01	2,01	1,00	10,559	1,60	1,63	0,81	5,636	7,71	17,27
	2	2,01				1,64					
	3	2,00				1,65					
14%	1	2,00	2,03	1,02	10,961	1,71	1,75	0,88	6,988	8,75	19,07
	2	2,01				1,75					
	3	2,09				1,79					

Lampiran 4. Data hasil pengujian kekuatan tarik kain

Variasi	Kekuatan Tarik (kg)									
	Lusi					Pakan				
	1	2	3	Rata-rata	Standar Deviasi	1	2	3	Rata-rata	Standar Deviasi
Blanko	21,816	21,523	22,211	21,850	0,345	16,055	18,52	18,52	17,698	1,423
2%	21,816	21,719	21,570	21,702	0,124	14,824	13,348	13,691	13,954	0,773
5%	20,98	21,176	18,910	20,355	1,255	17,777	18,074	15,613	17,155	1,343
8%	19,012	20,34	22,262	20,538	1,634	15,512	15,465	14,086	15,021	0,810
11%	20,145	20,637	19,602	20,128	0,518	14,133	13,102	14,773	14,003	0,843
14%	17,484	17,633	21,031	18,716	2,006	12,902	14,234	12,805	13,314	0,799

Lampiran 5. Nilai sudut kontak konsentrasi resin 5%



Lampiran 6. Leaflet zat Neoseed NR-7040

 **PT. INDONESIA NIKKA CHEMICALS**

Rev. : November 2022

PFC-free Durable Water Repellent

11

NEOSEED NR-7040

NEOSEED NR-7040 is a PFC-free water repellent which gives high durable water repellency to fabric with least impact on peel strength. It is suitable especially for laminated and coated fabrics.

*PFC stands for perfluorinated chemical, which exerts high durable water repellency on various fabrics, however, being phased out of textile market due to its high bioaccumulation feature.

PROPERTIES:

Appearance	: White liquid
Composition	: Nonionic Polymer, Silicone, Nonionic Surfactant, Propylene Glycol, Glycol-based solvent, Hydrocarbon compound, Cationic Polymer, Ethylene Glycol, Monobutyl Ether, Isopropyl Alcohol, and Water.
Ionic Nature	: Weakly cationic
pH	: Approx. 3 (undiluted)
Solubility	: Easily soluble in water

CHARACTERISTICS:

1. Imparts as good water repellency as PFC type.
2. Least impact on peel strength.
3. Imparts durable water repellency to polyester, nylon, cotton, all kind of fabric.
4. Contains no PFOA and No fluorinated gas will be generated.

DIRECTIONS FOR USE:

1. Optimum usage amount, it depends on the material, construction, weight and machine, a standard usage is as follows:

NEOSEED NR-7040 2 to 16% soln. by pad application (Wet pick-up 60-100%).

2. Recommended recipe:

- Synthetic Fiber (Machine: Mangle)
NEOSEED NR-7040 12% soln
NK ASSIST FU 1.0% soln

Cotton: 150 g/L x 300 m.
45 gr
water: 255 gr

HANDLING INSTRUCTION:

Please refer to the SDS for proper handling.

PACKING :

- 120Kg net in Polygen

NOTE :

The above information is made available as a guide by the manufacturer as a guide for customers, who should not construe this material to be either a warranty or an authorization for any party to employ any patented invention or process for his own use.

PT. INDONESIA NIKKA CHEMICALS