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Cod.	i	[X, Y, Z, x, y] ₁₀₀				[L*, a*, b*, C* _{ab} , h _{ab} , a', b', c' _{ab}] ₁₀₀				[Y, A, B, C _{AB} , h _{AB} , a, b, c _{AB}] ₁₀₀				[X, Y, Z] ₈₉				[L*, a*, b*, C* _{ab} , h _{ab}] ₈₉				[Y, A, B, C _{AB} , h _{AB}] ₈₉																	
		L*	a*	b*	C _{ab}	h _{ab}	a'	b'	c' _{ab}	Y	A	B	C _{AB}	h _{AB}	a	b	c _{AB}	L*	a*	b*	C _{ab}	h _{ab}	Y	A	B	C _{AB}	h _{AB}												
0099-R00B	00	27.2	11.6	1.4	0.677	0.289	40.6	85.6	50.8	99.6	30.7	0.291	-0.102	0.136	11.6	16.2	4.5	16.8	15.5	2.342	-0.047	1.446	46	17	631	487	24.1	10.3	1.2	38.3	82.3	48.8	95.6	30.7	10.3	14.3	4.0	14.9	15.5
0099-Y95R	01	29.8	13.2	0.4	0.687	0.305	43.1	85.0	69.3	109.6	39.2	0.287	-0.061	0.169	13.2	17.2	5.6	18.1	18.0	2.253	-0.01	1.371	43	17	617	487	26.4	11.7	0.3	40.7	81.6	65.8	104.9	38.9	11.7	15.3	5.0	16.0	18.0
0099-Y90R	02	32.3	15.0	0.0	0.683	0.317	45.6	83.2	78.7	114.5	43.4	0.283	0.0	0.226	15.0	18.0	6.5	19.2	19.9	2.151	0.0	1.278	42	17	610	486	28.6	13.3	0.0	43.2	79.9	74.5	109.3	43.0	13.3	16.0	5.8	17.0	19.9
0099-Y85R	03	34.4	16.9	0.0	0.671	0.329	48.1	80.2	82.9	115.4	46.0	0.278	0.0	0.225	16.9	18.4	7.3	19.8	21.8	2.039	0.0	1.173	41	17	606	486	30.5	15.0	0.0	45.6	77.0	78.6	110.0	45.6	15.0	16.3	6.5	17.5	21.8
0099-Y80R	04	36.3	18.8	0.0	0.659	0.341	50.5	76.4	86.7	115.6	48.6	0.273	-0.02	0.203	18.8	18.4	8.2	20.2	23.9	1.93	0.0	1.073	40	17	602	486	32.1	16.7	0.0	47.8	73.4	82.2	110.2	48.2	16.7	16.3	7.2	17.9	23.9
0099-Y75R	05	38.2	20.7	0.1	0.647	0.352	52.7	73.0	89.5	115.5	50.8	0.269	-0.033	0.189	20.7	18.5	9.0	20.5	25.9	1.84	-0.001	0.999	39	17	599	485	33.8	18.4	0.1	49.9	70.1	85.0	110.2	50.5	18.4	16.4	8.0	18.2	25.9
0099-Y70R	06	40.0	22.7	0.0	0.638	0.362	54.8	69.8	94.4	117.4	53.5	0.265	0.0	0.221	22.7	18.4	9.9	20.9	28.2	1.762	0.0	0.922	39	17	597	485	35.4	20.1	0.0	52.0	67.1	89.6	111.9	53.2	20.1	16.3	8.7	18.5	28.2
0099-Y65R	07	41.7	24.7	0.0	0.628	0.372	56.8	66.5	97.8	118.3	55.8	0.261	0.0	0.22	24.7	18.3	10.7	21.2	30.4	1.69	0.0	0.859	39	16	595	484	36.9	21.9	0.0	53.9	63.9	92.9	112.7	55.5	21.9	16.2	9.5	18.8	30.4
0099-Y60R	08	43.2	26.7	0.0	0.618	0.382	58.7	62.7	101.2	119.0	58.2	0.257	0.0	0.22	26.7	17.9	11.6	21.3	33.0	1.619	0.0	0.799	38	16	592	484	38.3	23.7	0.0	55.7	60.2	96.1	113.4	57.9	23.7	15.8	10.3	18.9	33.0
0099-Y55R	09	44.6	28.9	0.1	0.607	0.392	60.6	58.4	103.9	119.2	60.6	0.254	-0.024	0.194	28.9	17.2	12.5	21.3	36.0	1.547	0.0	0.739	38	16	590	483	39.5	25.6	0.0	57.6	56.1	98.7	113.5	60.4	25.6	15.3	11.1	18.9	36.0
0099-Y50R	10	46.2	31.2	0.1	0.596	0.403	62.7	54.1	107.1	119.9	63.2	0.25	-0.026	0.191	31.2	16.5	13.5	21.4	39.3	1.48	0.0	0.685	37	16	588	483	40.9	27.6	0.1	59.6	51.9	101.8	114.3	63.0	27.6	14.7	12.0	18.9	39.3
0099-Y45R	11	48.1	33.9	0.1	0.586	0.413	64.9	50.0	110.8	121.6	65.7	0.246	-0.026	0.192	33.9	15.9	14.7	21.7	42.8	1.419	0.0	0.64	37	16	586	482	42.6	30.0	0.1	61.7	48.0	105.4	115.8	65.5	30.0	14.1	13.0	19.2	42.8
0099-Y40R	12	50.4	37.0	0.1	0.576	0.423	67.3	46.0	115.3	124.1	68.3	0.243	-0.022	0.195	37.0	15.3	16.1	22.2	46.4	1.363	0.0	0.6	37	16	585	482	44.7	32.8	0.0	64.0	44.2	109.7	118.2	68.1	32.8	13.6	14.2	19.7	46.4
0099-Y35R	13	53.3	40.7	0.1	0.566	0.433	70.0	41.9	119.3	126.5	70.7	0.24	-0.026	0.191	40.7	14.6	17.7	22.9	50.4	1.309	0.0	0.562	36	16	583	481	47.2	36.0	0.1	66.6	40.2	113.6	120.5	70.5	36.0	13.0	15.7	20.3	50.4
0099-Y30R	14	56.3	44.8	0.1	0.557	0.443	72.8	37.5	124.3	129.8	73.2	0.237	-0.024	0.191	44.8	13.8	19.5	23.9	54.7	1.257	0.0	0.534	36	16	581	480	49.9	39.7	0.1	69.2	36.0	118.4	123.7	73.1	39.7	12.2	17.2	21.1	54.7
0099-Y25R	15	59.4	49.3	0.1	0.546	0.453	75.6	32.6	128.7	132.8	75.8	0.233	-0.023	0.192	49.3	12.6	21.4	24.8	59.6	1.204	0.0	0.503	36	15	580	479	52.6	43.7	0.1	72.0	31.3	122.6	126.6	75.7	43.7	11.1	19.0	22.0	59.6
0099-Y20R	16	63.0	54.8	0.1	0.534	0.465	78.9	27.0	134.9	137.6	78.7	0.23	-0.023	0.192	54.8	11.0	23.8	26.2	65.3	1.15	0.0	0.478	35	15	578	478	55.8	48.5	0.1	75.2	25.9	128.6	131.2	78.6	48.5	9.7	21.1	23.2	65.3
0099-Y15R	17	67.3	61.6	0.2	0.522	0.477	82.7	20.5	140.1	141.6	81.7	0.226	-0.028	0.187	61.6	8.8	26.7	28.1	71.7	1.093	0.0	0.457	35	15	576	477	59.6	54.5	0.2	78.8	19.6	133.7	135.1	81.6	54.5	7.8	23.7	24.9	71.7
0099-Y10R	18	70.7	68.0	0.3	0.508	0.489	86.0	13.5	143.8	144.5	84.7	0.222	-0.030	0.181	68.0	6.1	29.5	30.1	78.3	1.039	-0.001	0.443	34	15	574	476	62.6	60.2	0.3	82.0	12.9	137.4	138.0	84.6	62.6	5.4	26.1	26.7	78.3
0099-Y05R	19	71.8	72.4	0.5	0.496	0.5	88.2	6.5	144.9	145.0	87.4	0.219	-0.039	0.176	72.4	3.0	31.3	31.5	84.5	0.991	-0.002	0.434	34	14	572	474	63.6	64.2	0.4	84.1	6.3	138.6	138.7	87.4	64.2	2.7	27.7	27.9	84.5
0099-Y00R	20	70.8	74.5	0.7	0.484	0.51	91.2	0.1	143.7	143.7	87.5	0.213	-0.04	0.174	74.5	0.3	32.1	32.2	89.9	0.903	0.0	0.43	34	14	570	472	62.7	66.0	0.6	85.0	0.1	137.7	137.7	90.0	66.0	0.0	28.5	28.5	89.9
0099-C95Y	21	68.0	74.4	0.8	0.475	0.519	89.9	-5.5	141.7	141.8	87.3	0.213	-0.040	0.169	74.4	2.5	32.0	32.1	94.6	0.915	-0.003	0.432	33	14	569	470	60.3	65.9	0.7	84.9	-5.5	135.9	136.0	92.3	60.3	-2.2	28.4	28.5	94.6
0099-C90Y	22	64.7	73.1	0.8	0.467	0.527	88.5	-10.4	140.5	140.9	84.3	0.21	-0.040	0.169	73.1	-4.6	31.5	31.8	98.6	0.885	-0.004	0.435	33	13	568	468	57.3	64.8	0.7	84.4	-10.0	134.8	135.2	94.3	57.3	-4.1	27.9	28.2	98.6
0099-C85Y	23	61.7	71.8	0.9	0.459	0.534	87.9	-14.6	138.5	139.2	81.6	0.208	-0.048	0.167	71.8	-6.4	30.9	31.5	101.9	0.859	-0.004	0.44	33	13	567	465	54.6	63.6	0.8	83.8	-14.0	132.9	133.6	96.1	54.6	-5.7	27.9	29.1	101.9
0099-C80Y	24	58.8	70.3	0.8	0.453	0.541	87.1	-18.3	138.4	139.6	79.7	0.207	-0.047	0.168	70.3	-7.8	30.3	31.3	104.7	0.836	-0.004	0.445	33	12	566	463	52.1	62.3	0.7	83.1	-17.6	132.7	133.9	97.6	52.1	-6.9	26.8	27.7	104.7
0099-C75Y	25	55.8	68.4	0.6	0.447	0.548	86.2	-21.6	140.2	141.8	98.8	0.205	-0.042	0.173	68.4	-9.0	29.5	30.9	107.2	0.816	-0.002	0.452	32	12	565	460	49.4	60.6	0.5	82.1	-20.7	134.1	135.8	98.8	49.4	-8.0	26.1	27.4	107.2
0099-C70Y	26	52.6	66.0	0.6	0.441	0.554	85.0	-24.5	138.4	140.6	100.1	0.203	-0.042	0.173	66.0	-10.0	28.5	30.2	109.4	0.797	-0.002	0.458	32	11	564	456	46.6	58.5	0.5	81.0	-23.6	132.4	134.5	100.1	46.6	-8.8	25.2	26.8	109.4
0099-C65Y	27	49.2	63.2	0.6	0.435	0.559	83.6	-27.4	135.8	138.5	101.4	0.202	-0.043	0.172	63.2	-10.7	27.3	29.3	111.6	0.778	-0.003	0.464	32	10	563	451	43.6	56.0	0.5	79.6	-26.3	129.9	132.6	101.5	43.6	-9.5	24.2	26.0	111.6
0099-C60Y	28	45.5	60.0	0.7	0.429	0.565	81.8	-30.2	131.8	135.2	103.0	0.2	-0.045	0.17	60.0	-11.3	25.8	28.3	113.8	0.759	-0.003	0.471	32	8	563	443	40.3	53.2	0.6	78.0	-29.0	126.2	129.5	103.0	40.3	-10.0	22.9	25.0	113.8
0099-C55Y	29	41.5	56.2	0.5	0.422	0.573	79.8	-33.3	130.1	134.3	104.4	0.198	-0.043	0.173	56.2	-11.8	24.3	27.0	116.2	0.737	-0.003	0.481	32	5	562	427	36.7	49.8	0.5	76.0	-32.0	124.4	128.4	104.5	36.7	-10.5	21.5	24.0	116.2
0099-C50Y	30	37.1	52.2	0.4	0.414	0.582	77.4	-36.8	127.4	132.7	106.2	0.196	-0.041	0.175	52.2	-12.3	22.5	25.7	118.9	0.71	-0.002	0.493	32	-1	560	506	32.9	46.2	0.4	73.7	-35.4	121.7	126.8	106.2	32.9	-10.9	20.0	22.8	118.9
0099-C45Y	31	32.8	48.2	0.4	0.403	0.592	75.0	-41.0	123.4	130.0	108.4	0.193	-0.042	0.174	48.2	-12.9	20.8	24.5	121.9	0.681	-0.002	0.509	31	-1	559	559	29.1	42.7	0.4	71.4	-39.4	117.8	123.4						

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TUB registration: 20240201-gek3/gek310na.txt /ps
 application for evaluation and measurement of display or print output
 TUB material: code=rhata4ta

Cod.	i	[X, Y, Z, x, y] ₁₀₀				[L*, a*, b*, C* _{ab} , h _{ab} , a', b', c' _{ab}] ₁₀₀				[Y, A, B, C _{AB} , h _{AB} , a, b, c _{AB}] ₁₀₀				[u', v', λ _a , λ _b , λ _c] ₁₀₀				[X, Y, Z] ₈₉				[L*, a*, b*, C* _{ab} , h _{ab}] ₈₉				[Y, A, B, C _{AB} , h _{AB}] ₈₉																
		X	Y	Z	x	y	L*	a*	b*	C* _{ab}	h _{ab}	a'	b'	c' _{ab}	Y	A	B	C _{AB}	h _{AB}	a	b	c _{AB}	u'	v'	λ _a	λ _b	λ _c	X	Y	Z	L*	a*	b*	C* _{ab}	h _{ab}	Y	A	B	C _{AB}	h _{AB}		
9900-W99N	80	0.7	0.8	0.9	0.312	0.329	7.0	0.0	0.0	0.0	0.0	0.0	227.8	0.215	-0.215	0.01	0.8	0.0	0.0	0.0	229.9	0.949	-0.435	0.01	16	36	481	583	0.7	0.7	0.8	6.2	0.0	0.0	0.0	0.0	227.8	0.7	0.0	0.0	0.0	229.7
9500-W95N	81	2.4	2.5	2.8	0.312	0.329	18.1	0.0	0.0	0.0	0.0	0.0	164.0	0.215	-0.214	0.01	2.5	0.0	0.0	0.0	160.6	0.949	-0.434	0.01	20	-1	504	504c	2.1	2.2	2.4	16.7	0.0	0.0	0.0	0.0	164.0	2.2	0.0	0.0	0.0	160.5
9000-W90N	82	4.2	4.4	4.8	0.313	0.329	25.0	0.0	0.0	0.0	0.0	0.0	329.0	0.215	-0.215	0.01	4.4	0.0	0.0	0.0	326.1	0.95	-0.434	0.01	-1	27	537c	537	3.7	3.9	4.2	23.3	0.0	0.0	0.0	0.0	329.0	3.9	0.0	0.0	0.0	326.2
8500-W85N	83	6.1	6.4	7.0	0.313	0.329	30.4	0.0	0.0	0.1	0.1	0.1	325.8	0.215	-0.215	0.01	6.4	0.0	0.0	0.0	322.4	0.95	-0.435	0.01	-1	28	542c	542	5.4	5.7	6.2	28.6	0.0	0.0	0.1	0.1	325.8	5.7	0.0	0.0	0.0	322.5
8000-W80N	84	8.1	8.6	9.3	0.313	0.329	35.1	0.0	0.0	0.0	0.0	0.0	318.5	0.215	-0.215	0.01	8.6	0.0	0.0	0.0	314.9	0.95	-0.434	0.01	-1	30	550c	550	7.2	7.6	8.3	33.1	0.0	0.0	0.0	0.0	318.5	7.6	0.0	0.0	0.0	315.0
7500-W75N	85	10.4	10.9	11.9	0.313	0.329	39.4	0.1	0.0	0.1	0.1	0.1	351.1	0.216	-0.214	0.01	10.9	0.0	0.0	0.0	350.1	0.95	-0.434	0.01	-1	19	497c	497	9.2	9.7	10.5	37.2	0.1	0.0	0.1	0.1	351.1	9.7	0.0	0.0	0.0	350.1
7000-W70N	86	12.8	13.4	14.6	0.313	0.329	43.4	0.1	0.0	0.1	0.1	0.1	331.0	0.215	-0.215	0.01	13.4	0.0	0.0	0.0	327.7	0.95	-0.434	0.01	-1	26	533c	533	11.3	11.9	12.9	41.0	0.1	0.0	0.1	0.1	331.0	11.9	0.0	0.0	0.0	327.8
6500-W65N	87	15.4	16.1	17.6	0.313	0.329	47.2	0.1	0.0	0.1	0.1	0.1	342.8	0.216	-0.215	0.01	16.1	0.0	0.0	0.0	340.6	0.95	-0.434	0.01	-1	21	506c	506	13.6	14.3	15.6	44.7	0.1	0.0	0.1	0.1	342.8	14.3	0.0	0.0	0.0	340.6
6000-W60N	88	18.2	19.1	20.8	0.313	0.329	50.8	0.1	0.0	0.1	0.1	0.1	334.8	0.216	-0.215	0.01	19.1	0.0	0.0	0.0	331.8	0.95	-0.435	0.01	-1	24	523c	523	16.1	16.9	18.5	48.2	0.1	0.0	0.1	0.1	334.8	16.9	0.0	0.0	0.0	331.8
5500-W55N	89	21.3	22.4	24.4	0.313	0.329	54.4	0.1	0.0	0.1	0.1	0.1	344.2	0.216	-0.214	0.01	22.4	0.0	0.0	0.0	342.1	0.95	-0.434	0.01	-1	20	504c	504	18.9	19.8	21.6	51.7	0.1	0.0	0.1	0.1	344.2	19.8	0.0	0.0	0.0	342.1
5000-W50N	90	24.7	26.0	28.3	0.313	0.329	58.0	0.1	0.0	0.2	0.2	0.2	339.5	0.216	-0.215	0.01	26.0	0.0	0.0	0.0	336.9	0.951	-0.435	0.01	-1	22	512c	512	21.9	23.0	25.0	55.1	0.1	0.0	0.1	0.1	339.5	23.0	0.0	0.0	0.0	336.9
4500-W45N	91	28.4	29.9	32.6	0.313	0.329	61.6	0.1	0.0	0.1	0.1	0.1	337.4	0.216	-0.215	0.01	29.9	0.0	0.0	0.0	334.6	0.951	-0.435	0.01	-1	23	517c	517	25.2	26.5	28.9	58.5	0.1	0.0	0.1	0.1	337.4	26.5	0.0	0.0	0.0	334.6
4000-W40N	92	32.6	34.3	37.3	0.313	0.329	65.2	0.1	0.0	0.1	0.1	0.1	340.2	0.216	-0.215	0.01	34.3	0.0	0.0	0.0	337.6	0.95	-0.434	0.01	-1	22	511c	511	28.9	30.4	33.1	62.0	0.1	0.0	0.1	0.1	340.2	30.4	0.0	0.0	0.0	337.6
3500-W35N	93	37.2	39.2	42.7	0.313	0.329	68.9	0.1	0.0	0.1	0.1	0.1	338.0	0.216	-0.215	0.01	39.2	0.0	0.0	0.0	335.2	0.95	-0.435	0.01	-1	23	515c	515	33.0	34.7	37.8	65.5	0.1	0.0	0.1	0.1	338.0	34.7	0.0	0.0	0.0	335.2
3000-W30N	94	42.4	44.7	48.6	0.313	0.329	72.7	0.1	0.0	0.2	0.2	0.2	341.0	0.216	-0.215	0.01	44.7	0.0	0.0	0.1	338.5	0.951	-0.434	0.01	-1	21	509c	509	37.6	39.6	43.1	69.2	0.1	0.0	0.2	0.2	341.0	39.6	0.0	0.0	0.0	338.5
2500-W25N	95	48.3	50.8	55.4	0.313	0.329	76.6	0.1	0.0	0.2	0.2	0.2	336.2	0.216	-0.215	0.01	50.8	0.1	0.0	0.1	333.2	0.95	-0.435	0.01	-1	24	520c	520	42.8	45.0	49.0	72.9	0.1	0.0	0.2	0.2	336.2	45.0	0.0	0.0	0.1	335.2
2000-W20N	96	55.0	57.9	63.1	0.313	0.329	80.7	0.2	0.0	0.2	0.2	0.2	338.8	0.216	-0.215	0.01	57.9	0.1	0.0	0.1	336.0	0.95	-0.435	0.01	-1	22	514c	514	48.8	51.3	55.9	76.9	0.1	0.0	0.2	0.2	338.8	51.3	0.1	0.0	0.1	336.0
1500-W15N	97	62.8	66.0	71.9	0.313	0.329	85.0	0.2	0.0	0.2	0.2	0.2	339.6	0.216	-0.215	0.01	66.0	0.1	0.0	0.1	336.9	0.95	-0.434	0.01	-1	22	512c	512	55.6	58.5	63.7	81.0	0.2	0.0	0.2	0.2	339.6	58.5	0.1	0.0	0.1	337.0
1000-W10N	98	71.7	75.5	82.2	0.313	0.329	89.6	0.2	0.0	0.2	0.2	0.2	338.8	0.216	-0.215	0.01	75.5	0.1	0.0	0.1	336.1	0.95	-0.435	0.01	-1	22	513c	513	63.6	66.9	72.8	85.4	0.2	0.0	0.2	0.2	338.8	66.9	0.1	0.0	0.1	336.1
0500-W05N	99	82.3	86.6	94.3	0.313	0.329	94.6	0.2	0.0	0.2	0.2	0.2	338.5	0.216	-0.215	0.01	86.6	0.1	0.0	0.1	335.7	0.95	-0.435	0.01	-1	22	514c	514	72.9	76.7	83.5	90.2	0.2	0.0	0.2	0.2	338.5	76.7	0.1	0.0	0.1	335.7
0000-W00N	100	94.9	99.9	108.8	0.313	0.329	100.0	0.2	0.0	0.2	0.2	0.2	338.2	0.216	-0.215	0.01	99.9	0.1	0.0	0.1	335.4	0.95	-0.435	0.01	-1	23	515c	515	84.1	88.5	96.4	95.4	0.2	0.0	0.2	0.2	338.2	88.5	0.1	0.0	0.1	335.4

gek30-7n

TUB-test chart gek3; Hue circle with 80 steps and 21 greys of the NCS standard SS019104:1998
 CIELAB, TUBYAB and λ_d data calculated from CIEXYZ data of the NCS standard