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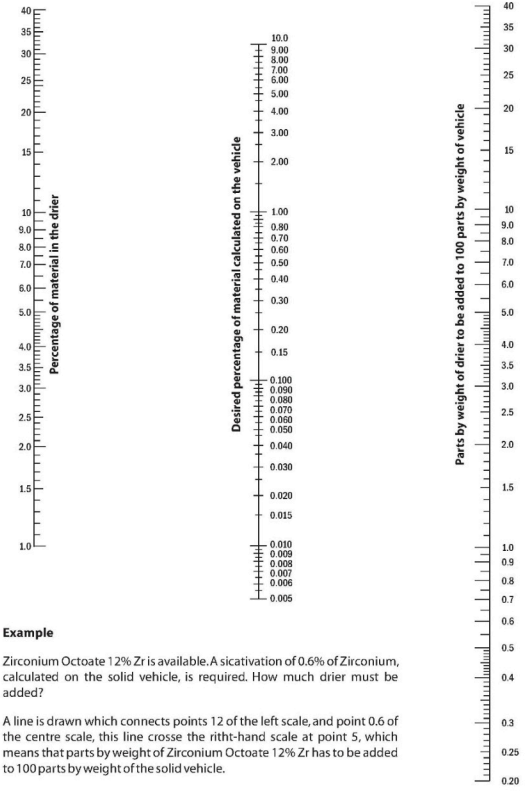
2 PRODUCT CATALOGUE

V OMISCELLANEOUS INFORMATION

1 EDrier Calculation & Colour Comparator

MPD INDUSTRIES P LTD.

Drier Calculation

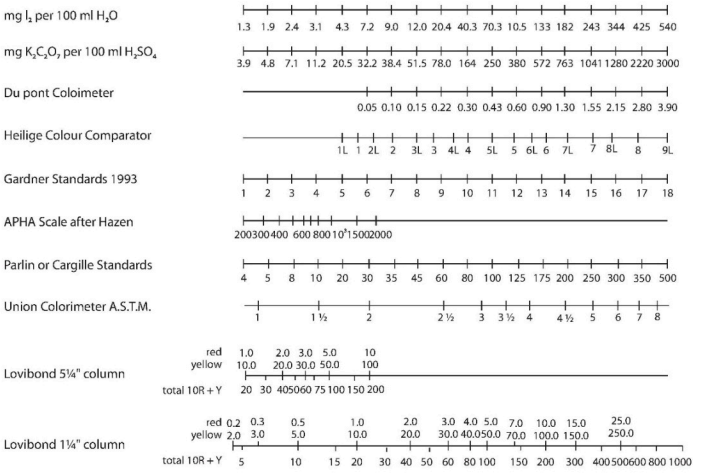


Example

Zirconium Octoate 12% Zr is available. A sicativation of 0.6% of Zirconium, calculated on the solid vehicle, is required. How much drier must be added?

A line is drawn which connects points 12 of the left scale, and point 0.6 of the centre scale, this line crosse the ritht-hand scale at point 5, which means that parts by weight of Zirconium Octoate 12% Zr has to be added to 100 parts by weight of the solid vehicle.

Color Comparator



The table only compares the colour intensities of the colour systems; colour shades cannot be presented in a single chart

MISCELLANEOUS INFORMATION
Viscosity & Temperature Conversion

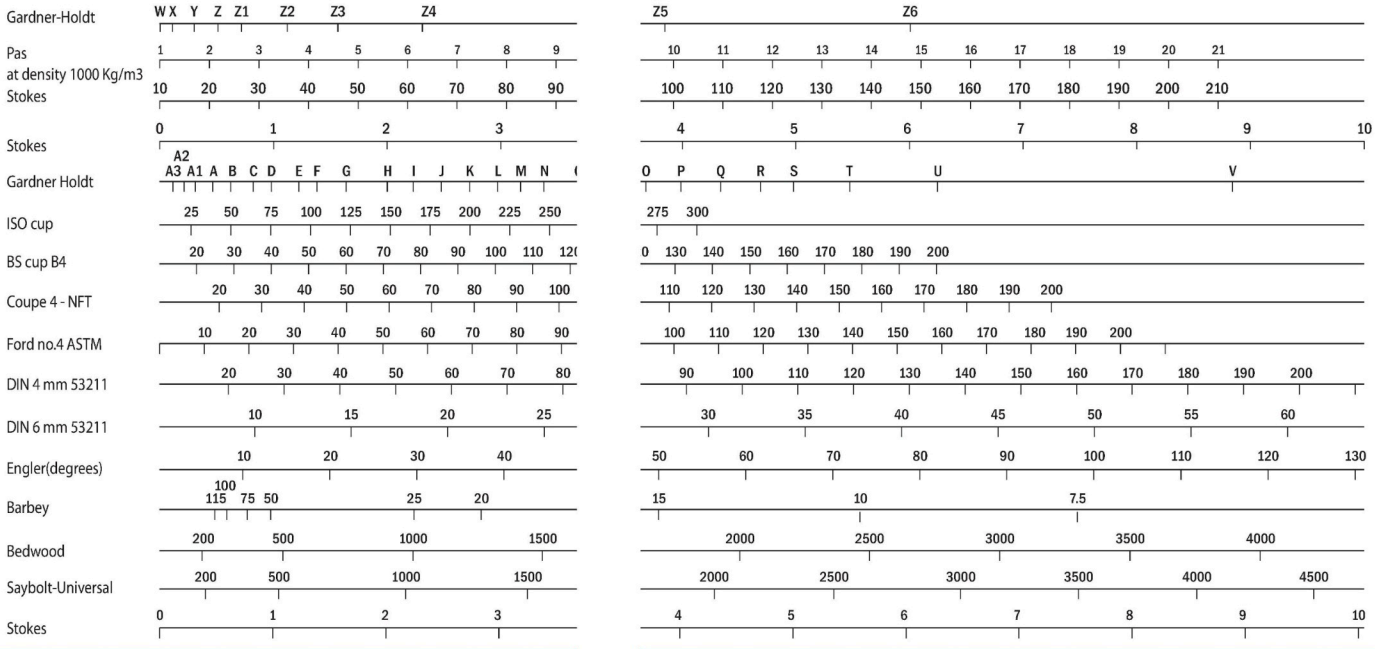
Viscosity Conversions (For Newtonian Fluids, @ 25°C, °D=1)

Centipolses	Ford Cup #4	Zahn #2	Zahn #3	Zahn #4	Gardner Hold	Kerbs Stomer
1.0					A-5	
10.0		16			A-4	
15.0		17			A-3	
22.0	14	19			A-2	
32.0	15	20			A-1	
50.0	19	22			A	
65.0	22	27			B	
85.0	27	34			C	
100.0	30	41	12		D	
125.0	36	49	14	11	E	
140.0	40	58	16	13	F	
165.0	46	66	18	14	G	
200.0	50	82	23	17	H	52
225.0	55		25	18	I	54
250.0	68		27	20	J	56
275.0	74		32	22	K	55
300.0	81		34	24	L	59
320.0	86		36	25	M	61
340.0	91		39	26	N	62
370.0	99		41	28	O	63
400.0	107		46	30	P	64
435.0	116		50	33	Q	65
470.0	125		52	34	R	67
500.0	133		57	37	S	68
550.0	146		63	40	T	69
630.0	167		68	44	U	71
885.0	199			64	V	78
1.070.0	270				W	85
1.290.0					X	95
1.760.0					Y	100
2.270.0					Z	105
2.700.0					Z-1	114
3.620.0					Z-2	129
4.630.0					Z-3	136
6.340.0					Z-4	
9.850.0					Z-5	
14.800.0					Z-6	

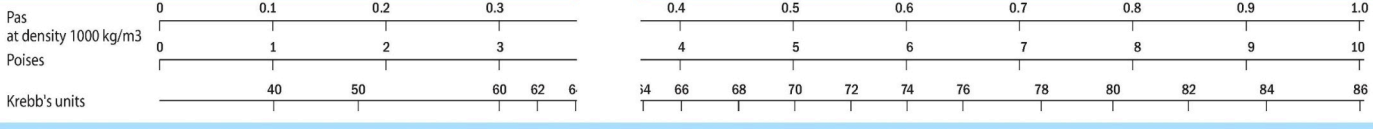
Temperature Conversion : °C = 5/9 (°F - 32), °F = 9/5 (°C) +32

°C→°F °C←°F			°C→°F °C←°F			°C→°F °C←°F			°C→°F °C←°F			°C→°F °C←°F		
-22.3	-10	14.0	-4.4	24	75.2	13.9	57	134.6	32.2	90	194.0	160	320	608
-22.2	-8	17.6	-3.9	25	77.0	32.8	91	195.8	32.8	91	195.8	166	330	626
-21.7	-7	19.4	-3.3	26	78.8	15.0	58	138.2	33.3	92	197.6	171	340	644
-21.1	-6	21.2	-2.8	27	80.6	15.6	59	140.0	33.9	93	199.4	177	350	662
-20.6	-5	23.0	-2.2	28	82.4	16.1	60	141.8	34.4	94	201.2	182	360	680
-20.0	-4	24.8	-1.7	29	84.2	16.7	61	143.6	35.0	95	203.0	188	370	698
-19.4	-3	26.6	-1.1	30	86.0	17.2	62	145.4	35.6	96	204.8	193	380	716
-18.9	-2	28.4	-0.6	31	87.8	17.8	63	147.2	36.1	97	206.6	199	390	734
-18.3	-1	30.2	0.0	32	89.6	18.3	64	149.0	36.7	98	208.4	204	400	752
-17.8	0	32.0	0.6	33	91.4	18.9	65	150.8	37.2	99	210.2	210	410	770
-17.2	1	33.8	1.1	34	93.2	19.4	66	152.6	38	100	212	216	420	788
-16.7	2	35.6	1.7	35	95.0	20.0	67	154.4	43	110	230	221	430	806
-16.1	3	37.4	2.2	36	96.8	20.6	68	156.2	49	120	248	227	440	824
-15.6	4	39.2	2.8	37	98.6	21.1	69	158.0	54	130	266	232	450	842
-15.0	5	41.0	3.3	38	100.4	21.7	70	159.8	60	140	284	238	460	860
-14.4	6	42.8	3.9	39	102.2	22.2	71	161.6	66	150	302	243	470	878
-13.9	7	44.6	4.4	40	104.0	22.8	72	163.4	71	160	320	249	480	896
-13.3	8	46.4	5.0	41	105.8	23.3	73	165.2	77	170	338	254	490	914
-12.8	9	48.2	5.6	42	107.6	23.9	74	167.0	82	180	356	260	500	932
-12.2	10	50.0	6.1	43	109.4	24.4	75	168.8	88	190	374	266	510	950
-11.7	11	51.8	6.7	44	111.2	25.0	76	170.6	93	200	392	271	520	968
-11.1	12	53.6	7.2	45	113.0	25.6	77	172.4	99	210	410	277	530	986
-10.6	13	55.4	7.3	46	114.8	26.1	78	174.2	100	212	413	282	540	1.004
-10.0	14	57.2	8.3	47	116.6	26.7	79	176.0	104	220	428	288	550	1.022
-9.4	15	59.0	8.9	48	118.4	27.2	80	177.8	110	230	446	293	560	1.040
-9.0	16	60.8	9.4	49	120.2	27.8	81	179.6	116	240	464	299	570	1.058
-8.3	17	62.6	10.0	50	122.0	28.3	82	181.4	121	250	482	304	580	1.076
-7.8	18	64.4	10.6	51	123.8	28.9	83	183.2	127	260	500	310	590	1.094
-7.2	19	66.2	11.1	52	125.6	29.4	84	185.0	132	270	518	316	600	1.112
-6.7	20	68.0	11.7	53	127.4	30.0	85	186.8	138	280	536			
-6.1	21	69.8	12.2	54	129.2	30.6	86	186.6	143	290	554			
-5.6	22	71.6	12.8	55	131.0	31.1	87	190.4	149	300	572			
-5.0	23	73.4	13.3	56	132.8	31.7	88	192.2	154	310	590			

Kinematic Viscosities



Dynamic Viscosities



4 Fatty acid composition of oils and fats

Common Name	Carbon Chain	Castor Oil	Cocoa	Coconut	Cotton seed	Ground nut	Karanj	Linseed	Mowrah	Musturd	Neem	Palm	Rice barn	Safflower	Sardine	Sesame	Soybean	Sunflower	Tallow Mutton	Tallow beef	Tobacco seed
Typical fatty acid composition																					
Caproic	C6			0.1																	
Caprylic	C8			8.0																	
Capric	C10			7.0																	
Lauric	C12			48.0			2.0														
Myristic	C14			17.0	0.5		8.0					1.0	0.5	0.1	5.0				1.0	2.0	
Palmitic	C16		24.0	9.0	23.0	7.0	4.0	6.5	24.0	0.5	14.0	42.5	17.0	4.0	14.0	8.0	8.0	5.5	21.0	35.0	3.0
Stearic	C18	0.5	35.0	2.4	1.5	5.0	2.0	4.4	19.0		19.0	4.0	2.5	1.5	3.0	4.5	5.0	4.0	30.0	15.5	5.0
Arachidic	C20					4.0					2.0		0.5	0.5		0.5	1.0	0.6			
Behenic	C22									4.0											
Lignoceric	C24					3.0	4.0			1.0		0.1	1.0	0.1		0.1		0.4			
Oliec	C18:1	8.0	39.0	6.0	25.0	60.0	62.0	21.0	43.0	32.0	49.0	43.0	45.5	26.5	10.0	49.5	30.0	34.0	43.0	44.0	16.0
Erucic	C22:1									42.0											
Ricinoleic	C18:1	88.0																			
Linoleic	C18:2	3.5	2.0	2.5	50.0	21.0	12.0	17.0	14.0	18.0	16.0	9.4	28.0	67.0	15.0	37.5	49.0	55.0	5.0	2.5	70.0
Linolenic	C18:3						5.0	51.0		2.5				0.0			7.0			0.0	
Misc Unsaturated								0.1							50.0		0.1			0.1	
Analytical data of oils and fats																					
Iodine Value		85	35 - 40	10	110	90	83 - 94	180	62 - 70	100	69 - 72	50	92- 09	145	160 - 190	110	125 - 140	133	40	40	131 - 142
Saponification value		177 - 187	190 - 200	252 - 260	192 - 200	189 - 193	177 - 189	190 - 195	188 - 192	176 - 184	190 -204	196-206	183 - 194	183 - 194	189 - 193	188 - 193	190 - 194	189 - 194	193 -195	196 - 200	186 - 197
Titre C		3	45 - 50	20 - 23	32 - 38	28 - 32	31 - 32	19 - 21	38 - 42	6 - 8	35 - 36	38 - 47	26.9	16	28 - 32	21 - 24	20 - 21	16 - 20	36 - 41	38 - 43	20
Unsaponifiction matter		0.5	1	0.4	1.5	0.5	2 - 9	1	1.5	1.2	1.1	0.3	4 - 7	1.5	1	0.8	1	0.6	0.3	0.6	1

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