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Paint Test Equipment

Bresle Patch Test

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Instructions

Measurements

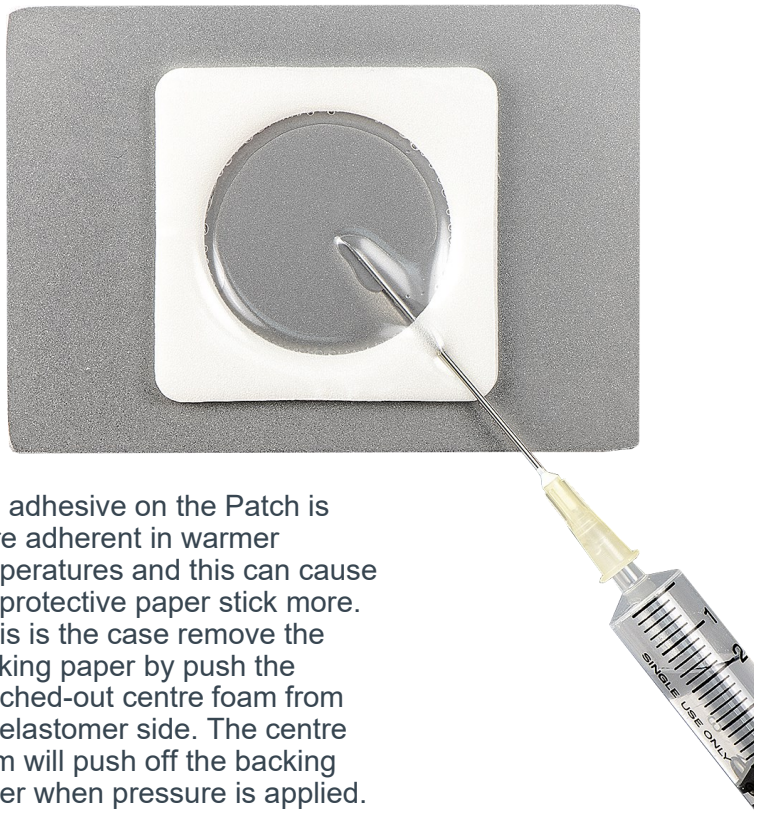
Pour approximately 10ml of Deionised Water into the Beaker.

Completely fill the Syringe with the Deionised Water from the Beaker, and then empty the Syringe back into the Beaker.

Using the Syringe, withdraw approximately 1ml of Deionised Water from the Beaker and place 3 to 4 droplets into the measuring electrode on the Conductivity Meter, ensuring that the Deionised Water is in both sections of the electrode with no air bubbles.

Record the conductivity of the Deionised water displayed by the Meter when the smiley face appears.

Take a Bresle Patch and remove the protective paper and the punched-out center foam. Ensure that you only hold the corner of the Patch away from the adhesive near the test chamber when the protective paper is removed.



The adhesive on the Patch is more adherent in warmer temperatures and this can cause the protective paper stick more. If this is the case remove the backing paper by push the punched-out centre foam from the elastomer side. The centre foam will push off the backing paper when pressure is applied.

Take a Bresle Patch and remove the protective paper and the punched-out center foam. Ensure that you only hold the corner of the Patch away from the adhesive near the test chamber when the protective paper is removed.

Press the adhesive side of the patch against the test surface by running the flat of your finger across from one side of the Patch in such a way that the air in the test chamber is pushed out and the minimum amount of air is trapped. The elastomer on the Patch should concave inwards and touch the steel in the center of the test

Fill the Syringe with 2.5ml of Deionised Water from the Beaker and insert the Syringe needle at an angle of about 30° to the test surface near the outer edge of the Patch so it passes through the adhesive foam body and into the circular test chamber.

Measurements Continued

Inject the Syringe contents ensuring that it wets the entire test surface, then without removing the Syringe needle from the Patch, suck the contents of the Patch back into the Syringe. Repeat until at least 10 injection–sucking cycles have been completed.

At the end of the 10th cycle retrieve the contaminated water from the Patch with the Syringe and place 3 to 4 droplets into the measuring electrode on the Conductivity Meter, ensuring that the Deionised Water is in both sections of the electrode with no air bubbles.

Record the conductivity of the contaminated water displayed by the Meter when the smiley face appears.

Testing Abrasives

ISO 11127-6: Preparation of steel substrates before application of paints and related products. Test methods for non-metallic blast-cleaning abrasives. Part 6: Determination of water-soluble contaminants by conductivity measurement.

The Bresle Test can also be used for testing
non-metallic abrasives for water-soluble salts and corrosion products.

Record the conductivity of the Deionised Water using the same procedure under the section Taking Measurements.

Place 100gm of abrasive into a flask and add 100ml of the Deionized Water that you have recorded the conductivity of. Shake for 5 minutes and allow to stand for 1 hour. If the liquid does not clear, filter by any suitable method.

Using the Syringe, withdraw approximately 1ml of contaminated water from the flask and place 3 to 4 droplets into the measuring electrode on the Conductivity Meter, ensuring that the contaminated water is in both sections of the electrode with no air bubbles.

Record the conductivity of the contaminated water displayed by the Meter when the smiley face appears.

Subtract the initial Deionized Water conductivity reading from the contaminated water conductivity reading. Record the results as shown in µS/cm.

Conversions

Results	Conversion µg/cm^2	Conversion mg/m^2
1µS/cm	0.1µg/cm^2	1mg/m^2
2µS/cm	0.2µg/cm^2	2mg/m^2
3µS/cm	0.3µg/cm^2	3mg/m^2
4µS/cm	0.4µg/cm^2	4mg/m^2
5µS/cm	0.5µg/cm^2	5mg/m^2
6µS/cm	0.6µg/cm^2	6mg/m^2
7µS/cm	0.7µg/cm^2	7mg/m^2
8µS/cm	0.8µg/cm^2	8mg/m^2
9µS/cm	0.9µg/cm^2	9mg/m^2
10µS/cm	1.0µg/cm^2	10mg/m^2
11µS/cm	1.1µg/cm^2	11mg/m^2
12µS/cm	1.2µg/cm^2	12mg/m^2
13µS/cm	1.3µg/cm^2	13mg/m^2
14µS/cm	1.4µg/cm^2	14mg/m^2
15µS/cm	1.5µg/cm^2	15mg/m^2
16µS/cm	1.6µg/cm^2	16mg/m^2
17µS/cm	1.7µg/cm^2	17mg/m^2
18µS/cm	1.8µg/cm^2	18mg/m^2
19µS/cm	1.9µg/cm^2	19mg/m^2
20µS/cm	2.0µg/cm^2	20mg/m^2
21µS/cm	2.1µg/cm^2	21mg/m^2
22µS/cm	2.2µg/cm^2	22mg/m^2
23µS/cm	2.3µg/cm^2	23mg/m^2
24µS/cm	2.4µg/cm^2	24mg/m^2
25µS/cm	2.5µg/cm^2	25mg/m^2
26µS/cm	2.6µg/cm^2	26mg/m^2
27µS/cm	2.7µg/cm^2	27mg/m^2
28µS/cm	2.8µg/cm^2	28mg/m^2
29µS/cm	2.9µg/cm^2	29mg/m^2
30µS/cm	3.0µg/cm^2	30mg/m^2
31µS/cm	3.1µg/cm^2	31mg/m^2
32µS/cm	3.2µg/cm^2	32mg/m^2
33µS/cm	3.3µg/cm^2	33mg/m^2
34µS/cm	3.4µg/cm^2	34mg/m^2
35µS/cm	3.5µg/cm^2	35mg/m^2
36µS/cm	3.6µg/cm^2	36mg/m^2
37µS/cm	3.7µg/cm^2	37mg/m^2
38µS/cm	3.8µg/cm^2	38mg/m^2
39µS/cm	3.9µg/cm^2	39mg/m^2
40µS/cm	4.0µg/cm^2	40mg/m^2
41µS/cm	4.1µg/cm^2	41mg/m^2
42µS/cm	4.2µg/cm^2	42mg/m^2
43µS/cm	4.3µg/cm^2	43mg/m^2
44µS/cm	4.4µg/cm^2	44mg/m^2
45µS/cm	4.5µg/cm^2	45mg/m^2
46µS/cm	4.6µg/cm^2	46mg/m^2
47µS/cm	4.7µg/cm^2	47mg/m^2
48µS/cm	4.8µg/cm^2	48mg/m^2
49µS/cm	4.9µg/cm^2	49mg/m^2
50µS/cm	5.0µg/cm^2	50mg/m^2
51µS/cm	5.1µg/cm^2	51mg/m^2
52µS/cm	5.2µg/cm^2	52mg/m^2
53µS/cm	5.3µg/cm^2	53mg/m^2
54µS/cm	5.4µg/cm^2	54mg/m^2
55µS/cm	5.5µg/cm^2	55mg/m^2
56µS/cm	5.6µg/cm^2	56mg/m^2
57µS/cm	5.7µg/cm^2	57mg/m^2
58µS/cm	5.8µg/cm^2	58mg/m^2
59µS/cm	5.9µg/cm^2	59mg/m^2
60µS/cm	6.0µg/cm^2	60mg/m^2
61µS/cm	6.1µg/cm^2	61mg/m^2
62µS/cm	6.2µg/cm^2	62mg/m^2
63µS/cm	6.3µg/cm^2	63mg/m^2
64µS/cm	6.4µg/cm^2	64mg/m^2
65µS/cm	6.5µg/cm^2	65mg/m^2
66µS/cm	6.6µg/cm^2	66mg/m^2
67µS/cm	6.7µg/cm^2	67mg/m^2
68µS/cm	6.8µg/cm^2	68mg/m^2
69µS/cm	6.9µg/cm^2	69mg/m^2
70µS/cm	7.0µg/cm^2	70mg/m^2
71µS/cm	7.1µg/cm^2	71mg/m^2
72µS/cm	7.2µg/cm^2	72mg/m^2
73µS/cm	7.3µg/cm^2	73mg/m^2
74µS/cm	7.4µg/cm^2	74mg/m^2
75µS/cm	7.5µg/cm^2	75mg/m^2
76µS/cm	7.6µg/cm^2	76mg/m^2
77µS/cm	7.7µg/cm^2	77mg/m^2
78µS/cm	7.8µg/cm^2	78mg/m^2
79µS/cm	7.9µg/cm^2	79mg/m^2
80µS/cm	8.0µg/cm^2	80mg/m^2
81µS/cm	8.1µg/cm^2	81mg/m^2
82µS/cm	8.2µg/cm^2	82mg/m^2
83µS/cm	8.3µg/cm^2	83mg/m^2
84µS/cm	8.4µg/cm^2	84mg/m^2
85µS/cm	8.5µg/cm^2	85mg/m^2
86µS/cm	8.6µg/cm^2	86mg/m^2
87µS/cm	8.7µg/cm^2	87mg/m^2
88µS/cm	8.8µg/cm^2	88mg/m^2
89µS/cm	8.9µg/cm^2	89mg/m^2
90µS/cm	9.0µg/cm^2	90mg/m^2
91µS/cm	9.1µg/cm^2	91mg/m^2
92µS/cm	9.2µg/cm^2	92mg/m^2
93µS/cm	9.3µg/cm^2	93mg/m^2

Conversions

Results	Conversion µg/cm^2	Conversion mg/m^2
94µS/cm	9.4µg/cm^2	94mg/m^2
95µS/cm	9.5µg/cm^2	95mg/m^2
96µS/cm	9.6µg/cm^2	96mg/m^2
97µS/cm	9.7µg/cm^2	97mg/m^2
98µS/cm	9.8µg/cm^2	98mg/m^2
99µS/cm	9.9µg/cm^2	99mg/m^2
100µS/cm	10.0µg/cm^2	100mg/m^2
101µS/cm	10.1µg/cm^2	101mg/m^2
102µS/cm	10.2µg/cm^2	102mg/m^2
103µS/cm	10.3µg/cm^2	103mg/m^2
104µS/cm	10.4µg/cm^2	104mg/m^2
105µS/cm	10.5µg/cm^2	105mg/m^2
106µS/cm	10.6µg/cm^2	106mg/m^2
107µS/cm	10.7µg/cm^2	107mg/m^2
108µS/cm	10.8µg/cm^2	108mg/m^2
109µS/cm	10.9µg/cm^2	109mg/m^2
110µS/cm	11.0µg/cm^2	110mg/m^2
111µS/cm	11.1µg/cm^2	111mg/m^2
112µS/cm	11.2µg/cm^2	112mg/m^2
113µS/cm	11.3µg/cm^2	113mg/m^2
114µS/cm	11.4µg/cm^2	114mg/m^2
115µS/cm	11.5µg/cm^2	115mg/m^2
116µS/cm	11.6µg/cm^2	116mg/m^2
117µS/cm	11.7µg/cm^2	117mg/m^2
118µS/cm	11.8µg/cm^2	118mg/m^2
119µS/cm	11.9µg/cm^2	119mg/m^2
120µS/cm	12.0µg/cm^2	120mg/m^2
121µS/cm	12.1µg/cm^2	121mg/m^2
122µS/cm	12.2µg/cm^2	122mg/m^2
123µS/cm	12.3µg/cm^2	123mg/m^2
124µS/cm	12.4µg/cm^2	124mg/m^2
125µS/cm	12.5µg/cm^2	125mg/m^2
126µS/cm	12.6µg/cm^2	126mg/m^2
127µS/cm	12.7µg/cm^2	127mg/m^2
128µS/cm	12.8µg/cm^2	128mg/m^2
129µS/cm	12.9µg/cm^2	129mg/m^2
130µS/cm	13.0µg/cm^2	130mg/m^2
131µS/cm	13.1µg/cm^2	131mg/m^2
132µS/cm	13.2µg/cm^2	132mg/m^2
133µS/cm	13.3µg/cm^2	133mg/m^2
134µS/cm	13.4µg/cm^2	134mg/m^2
135µS/cm	13.5µg/cm^2	135mg/m^2
136µS/cm	13.6µg/cm^2	136mg/m^2
137µS/cm	13.7µg/cm^2	137mg/m^2
138µS/cm	13.8µg/cm^2	138mg/m^2
139µS/cm	13.9µg/cm^2	139mg/m^2
140µS/cm	14.0µg/cm^2	140mg/m^2
141µS/cm	14.1µg/cm^2	141mg/m^2
142µS/cm	14.2µg/cm^2	142mg/m^2
143µS/cm	14.3µg/cm^2	143mg/m^2
144µS/cm	14.4µg/cm^2	144mg/m^2
145µS/cm	14.5µg/cm^2	145mg/m^2
146µS/cm	14.6µg/cm^2	146mg/m^2
147µS/cm	14.7µg/cm^2	147mg/m^2
148µS/cm	14.8µg/cm^2	148mg/m^2
149µS/cm	14.9µg/cm^2	149mg/m^2
150µS/cm	15.0µg/cm^2	150mg/m^2
151µS/cm	15.1µg/cm^2	151mg/m^2
152µS/cm	15.2µg/cm^2	152mg/m^2
153µS/cm	15.3µg/cm^2	153mg/m^2
154µS/cm	15.4µg/cm^2	154mg/m^2
155µS/cm	15.5µg/cm^2	155mg/m^2
156µS/cm	15.6µg/cm^2	156mg/m^2
157µS/cm	15.7µg/cm^2	157mg/m^2
158µS/cm	15.8µg/cm^2	158mg/m^2
159µS/cm	15.9µg/cm^2	159mg/m^2
160µS/cm	16.0µg/cm^2	160mg/m^2
161µS/cm	16.1µg/cm^2	161mg/m^2
162µS/cm	16.2µg/cm^2	162mg/m^2
163µS/cm	16.3µg/cm^2	163mg/m^2
164µS/cm	16.4µg/cm^2	164mg/m^2
165µS/cm	16.5µg/cm^2	165mg/m^2
166µS/cm	16.6µg/cm^2	166mg/m^2
167µS/cm	16.7µg/cm^2	167mg/m^2
168µS/cm	16.8µg/cm^2	168mg/m^2
169µS/cm	16.9µg/cm^2	169mg/m^2
170µS/cm	17.0µg/cm^2	170mg/m^2
171µS/cm	17.1µg/cm^2	171mg/m^2
172µS/cm	17.2µg/cm^2	172mg/m^2
173µS/cm	17.3µg/cm^2	173mg/m^2
174µS/cm	17.4µg/cm^2	174mg/m^2
175µS/cm	17.5µg/cm^2	175mg/m^2
176µS/cm	17.6µg/cm^2	176mg/m^2
177µS/cm	17.7µg/cm^2	177mg/m^2
178µS/cm	17.8µg/cm^2	178mg/m^2
179µS/cm	17.9µg/cm^2	179mg/m^2
180µS/cm	18.0µg/cm^2	180mg/m^2
181µS/cm	18.1µg/cm^2	181mg/m^2
182µS/cm	18.2µg/cm^2	182mg/m^2
183µS/cm	18.3µg/cm^2	183mg/m^2
184µS/cm	18.4µg/cm^2	184mg/m^2
185µS/cm	18.5µg/cm^2	185mg/m^2
186µS/cm	18.6µg/cm^2	186mg/m^2

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Conversions

Results	Conversion $\mu g/cm^2$	Conversion mg/m^2	Results	Conversion $\mu g/cm^2$	Conversion mg/m^2
187µS/cm	18.7µg/cm²	187mg/m²	218µS/cm	21.8µg/cm²	218mg/m²
188µS/cm	18.8µg/cm²	188mg/m²	219µS/cm	21.9µg/cm²	219mg/m²
189µS/cm	18.9µg/cm²	189mg/m²	220µS/cm	22.0µg/cm²	220mg/m²
190µS/cm	19.0µg/cm²	190mg/m²	221µS/cm	22.1µg/cm²	221mg/m²
191µS/cm	19.1µg/cm²	191mg/m²	222µS/cm	22.2µg/cm²	222mg/m²
192µS/cm	19.2µg/cm²	192mg/m²	223µS/cm	22.3µg/cm²	223mg/m²
193µS/cm	19.3µg/cm²	193mg/m²	224µS/cm	22.4µg/cm²	224mg/m²
194µS/cm	19.4µg/cm²	194mg/m²	225µS/cm	22.5µg/cm²	225mg/m²
195µS/cm	19.5µg/cm²	195mg/m²	226µS/cm	22.6µg/cm²	226mg/m²
196µS/cm	19.6µg/cm²	196mg/m²	227µS/cm	22.7µg/cm²	227mg/m²
197µS/cm	19.7µg/cm²	197mg/m²	228µS/cm	22.8µg/cm²	228mg/m²
198µS/cm	19.8µg/cm²	198mg/m²	229µS/cm	22.9µg/cm²	229mg/m²
199µS/cm	19.9µg/cm²	199mg/m²	230µS/cm	23.0µg/cm²	230mg/m²
200µS/cm	20.0µg/cm²	200mg/m²	231µS/cm	23.1µg/cm²	231mg/m²
201µS/cm	20.1µg/cm²	201mg/m²	232µS/cm	23.2µg/cm²	232mg/m²
202µS/cm	20.2µg/cm²	202mg/m²	233µS/cm	23.3µg/cm²	233mg/m²
203µS/cm	20.3µg/cm²	203mg/m²	234µS/cm	23.4µg/cm²	234mg/m²
204µS/cm	20.4µg/cm²	204mg/m²	235µS/cm	23.5µg/cm²	235mg/m²
205µS/cm	20.5µg/cm²	205mg/m²	236µS/cm	23.6µg/cm²	236mg/m²
206µS/cm	20.6µg/cm²	206mg/m²	237µS/cm	23.7µg/cm²	237mg/m²
207µS/cm	20.7µg/cm²	207mg/m²	238µS/cm	23.8µg/cm²	238mg/m²
208µS/cm	20.8µg/cm²	208mg/m²	239µS/cm	23.9µg/cm²	239mg/m²
209µS/cm	20.9µg/cm²	209mg/m²	240µS/cm	24.0µg/cm²	240mg/m²
210µS/cm	21.0µg/cm²	210mg/m²	241µS/cm	24.1µg/cm²	241mg/m²
211µS/cm	21.1µg/cm²	211mg/m²	242µS/cm	24.2µg/cm²	242mg/m²
212µS/cm	21.2µg/cm²	212mg/m²	243µS/cm	24.3µg/cm²	243mg/m²
213µS/cm	21.3µg/cm²	213mg/m²	244µS/cm	24.4µg/cm²	244mg/m²
214µS/cm	21.4µg/cm²	214mg/m²	245µS/cm	24.5µg/cm²	245mg/m²
215µS/cm	21.5µg/cm²	215mg/m²	246µS/cm	24.6µg/cm²	246mg/m²
216µS/cm	21.6µg/cm²	216mg/m²	247µS/cm	24.7µg/cm²	247mg/m²
217µS/cm	21.7µg/cm²	217mg/m²	248µS/cm	24.8µg/cm²	248mg/m²

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