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Conversion Factors for Air Permeability

Desired Unit → Given Unit ↓	l/dm ² min @ 200 Pa	l/m ² sec @ 200 Pa	m ³ /m ² min @ 200 Pa	m ³ /m ² h @ 200 Pa	cfm @ ½" WG (125 Pa)	cm ³ /cm ² sec @ 125 Pa
l/dm ² min @ 200 Pa (DIN 53887)	1	1,67	0,1	6	0,208	0,106
l/m ² sec @ 200 Pa (DIN 53887)	0,6	1	0,06	3,6	0,125	0,064
m ³ /m ² min @ 200 Pa (related to DIN 53887)	10	16,67	1	60	2,083	1,058
m ³ /m ² h @ 200 Pa (related to DIN 53887)	0,167	0,279	0,0167	1	0,0348	0,0177
cfm @ ½" WG (125 Pa) (ASTM D 737)	4,8	8,02	0,48	28,8	1	0,508
cm ³ /cm ² sec @ 125 Pa (ASTM D 737)	9,45	15,78	0,945	56,7	1,97	1

11 Steel Plates for Structural Use

EN	SAE	ASTM	UNS	ISO	EN
A36	1018	A36	1018	1018	A36
A572 Gr. 50	50	A572 Gr. 50	50	50	A572 Gr. 50
A572 Gr. 60	60	A572 Gr. 60	60	60	A572 Gr. 60
A572 Gr. 70	70	A572 Gr. 70	70	70	A572 Gr. 70
A572 Gr. 80	80	A572 Gr. 80	80	80	A572 Gr. 80
A572 Gr. 90	90	A572 Gr. 90	90	90	A572 Gr. 90
A572 Gr. 100	100	A572 Gr. 100	100	100	A572 Gr. 100
A572 Gr. 110	110	A572 Gr. 110	110	110	A572 Gr. 110
A572 Gr. 120	120	A572 Gr. 120	120	120	A572 Gr. 120
A572 Gr. 130	130	A572 Gr. 130	130	130	A572 Gr. 130
A572 Gr. 140	140	A572 Gr. 140	140	140	A572 Gr. 140
A572 Gr. 150	150	A572 Gr. 150	150	150	A572 Gr. 150
A572 Gr. 160	160	A572 Gr. 160	160	160	A572 Gr. 160
A572 Gr. 170	170	A572 Gr. 170	170	170	A572 Gr. 170
A572 Gr. 180	180	A572 Gr. 180	180	180	A572 Gr. 180
A572 Gr. 190	190	A572 Gr. 190	190	190	A572 Gr. 190
A572 Gr. 200	200	A572 Gr. 200	200	200	A572 Gr. 200
A572 Gr. 210	210	A572 Gr. 210	210	210	A572 Gr. 210
A572 Gr. 220	220	A572 Gr. 220	220	220	A572 Gr. 220
A572 Gr. 230	230	A572 Gr. 230	230	230	A572 Gr. 230
A572 Gr. 240	240	A572 Gr. 240	240	240	A572 Gr. 240
A572 Gr. 250	250	A572 Gr. 250	250	250	A572 Gr. 250
A572 Gr. 260	260	A572 Gr. 260	260	260	A572 Gr. 260
A572 Gr. 270	270	A572 Gr. 270	270	270	A572 Gr. 270
A572 Gr. 280	280	A572 Gr. 280	280	280	A572 Gr. 280
A572 Gr. 290	290	A572 Gr. 290	290	290	A572 Gr. 290
A572 Gr. 300	300	A572 Gr. 300	300	300	A572 Gr. 300
A572 Gr. 310	310	A572 Gr. 310	310	310	A572 Gr. 310
A572 Gr. 320	320	A572 Gr. 320	320	320	A572 Gr. 320
A572 Gr. 330	330	A572 Gr. 330	330	330	A572 Gr. 330
A572 Gr. 340	340	A572 Gr. 340	340	340	A572 Gr. 340
A572 Gr. 350	350	A572 Gr. 350	350	350	A572 Gr. 350
A572 Gr. 360	360	A572 Gr. 360	360	360	A572 Gr. 360
A572 Gr. 370	370	A572 Gr. 370	370	370	A572 Gr. 370
A572 Gr. 380	380	A572 Gr. 380	380	380	A572 Gr. 380
A572 Gr. 390	390	A572 Gr. 390	390	390	A572 Gr. 390
A572 Gr. 400	400	A572 Gr. 400	400	400	A572 Gr. 400
A572 Gr. 410	410	A572 Gr. 410	410	410	A572 Gr. 410
A572 Gr. 420	420	A572 Gr. 420	420	420	A572 Gr. 420
A572 Gr. 430	430	A572 Gr. 430	430	430	A572 Gr. 430
A572 Gr. 440	440	A572 Gr. 440	440	440	A572 Gr. 440
A572 Gr. 450	450	A572 Gr. 450	450	450	A572 Gr. 450
A572 Gr. 460	460	A572 Gr. 460	460	460	A572 Gr. 460
A572 Gr. 470	470	A572 Gr. 470	470	470	A572 Gr. 470
A572 Gr. 480	480	A572 Gr. 480	480	480	A572 Gr. 480
A572 Gr. 490	490	A572 Gr. 490	490	490	A572 Gr. 490
A572 Gr. 500	500	A572 Gr. 500	500	500	A572 Gr. 500
A572 Gr. 510	510	A572 Gr. 510	510	510	A572 Gr. 510
A572 Gr. 520	520	A572 Gr. 520	520	520	A572 Gr. 520
A572 Gr. 530	530	A572 Gr. 530	530	530	A572 Gr. 530
A572 Gr. 540	540	A572 Gr. 540	540	540	A572 Gr. 540
A572 Gr. 550	550	A572 Gr. 550	550	550	A572 Gr. 550
A572 Gr. 560	560	A572 Gr. 560	560	560	A572 Gr. 560
A572 Gr. 570	570	A572 Gr. 570	570	570	A572 Gr. 570
A572 Gr. 580	580	A572 Gr. 580	580	580	A572 Gr. 580
A572 Gr. 590	590	A572 Gr. 590	590	590	A572 Gr. 590
A572 Gr. 600	600	A572 Gr. 600	600	600	A572 Gr. 600
A572 Gr. 610	610	A572 Gr. 610	610	610	A572 Gr. 610
A572 Gr. 620	620	A572 Gr. 620	620	620	A572 Gr. 620
A572 Gr. 630	630	A572 Gr. 630	630	630	A572 Gr. 630
A572 Gr. 640	640	A572 Gr. 640	640	640	A572 Gr. 640
A572 Gr. 650	650	A572 Gr. 650	650	650	A572 Gr. 650
A572 Gr. 660	660	A572 Gr. 660	660	660	A572 Gr. 660
A572 Gr. 670	670	A572 Gr. 670	670	670	A572 Gr. 670
A572 Gr. 680	680	A572 Gr. 680	680	680	A572 Gr. 680
A572 Gr. 690	690	A572 Gr. 690	690	690	A572 Gr. 690
A572 Gr. 700	700	A572 Gr. 700	700	700	A572 Gr. 700
A572 Gr. 710	710	A572 Gr. 710	710	710	A572 Gr. 710
A572 Gr. 720	720	A572 Gr. 720	720	720	A572 Gr. 720
A572 Gr. 730	730	A572 Gr. 730	730	730	A572 Gr. 730
A572 Gr. 740	740	A572 Gr. 740	740	740	A572 Gr. 740
A572 Gr. 750	750	A572 Gr. 750	750	750	A572 Gr. 750
A572 Gr. 760	760	A572 Gr. 760	760	760	A572 Gr. 760
A572 Gr. 770	770	A572 Gr. 770	770	770	A572 Gr. 770
A572 Gr. 780	780	A572 Gr. 780	780	780	A572 Gr. 780
A572 Gr. 790	790	A572 Gr. 790	790	790	A572 Gr. 790
A572 Gr. 800	800	A572 Gr. 800	800	800	A572 Gr. 800
A572 Gr. 810	810	A572 Gr. 810	810	810	A572 Gr. 810
A572 Gr. 820	820	A572 Gr. 820	820	820	A572 Gr. 820
A572 Gr. 830	830	A572 Gr. 830	830	830	A572 Gr. 830
A572 Gr. 840	840	A572 Gr. 840	840	840	A572 Gr. 840
A572 Gr. 850	850	A572 Gr. 850	850	850	A572 Gr. 850
A572 Gr. 860	860	A572 Gr. 860	860	860	A572 Gr. 860
A572 Gr. 870	870	A572 Gr. 870	870	870	A572 Gr. 870
A572 Gr. 880	880	A572 Gr. 880	880	880	A572 Gr. 880
A572 Gr. 890	890	A572 Gr. 890	890	890	A572 Gr. 890
A572 Gr. 900	900	A572 Gr. 900	900	900	A572 Gr. 900
A572 Gr. 910	910	A572 Gr. 910	910	910	A572 Gr. 910
A572 Gr. 920	920	A572 Gr. 920	920	920	A572 Gr. 920
A572 Gr. 930	930	A572 Gr. 930	930	930	A572 Gr. 930
A572 Gr. 940	940	A572 Gr. 940	940	940	A572 Gr. 940
A572 Gr. 950	950	A572 Gr. 950	950	950	A572 Gr. 950
A572 Gr. 960	960	A572 Gr. 960	960	960	A572 Gr. 960
A572 Gr. 970	970	A572 Gr. 970	970	970	A572 Gr. 970
A572 Gr. 980	980	A572 Gr. 980	980	980	A572 Gr. 980
A572 Gr. 990	990	A572 Gr. 990	990	990	A572 Gr. 990
A572 Gr. 1000	1000	A572 Gr. 1000	1000	1000	A572 Gr. 1000

**How much Baking Do Electroplated Parts need?
(ASTM B 850-94)**

Tensile Strength (MPa)	Tensile Strength (000 psi)	Rockwell Hardness HR _c	Post-Plate Bake (@190° - 220° C. or 374° - 428° F.)
1700 - 1800	247 - 261	49 - 51	22+
1600 - 1700	232 - 247	47 - 49	20+
1500 - 1600	218 - 232	45 - 47	18+
1400 - 1500	203 - 218	43 - 45	16+
1300 - 1400	189 - 203	39 - 43	14+
1200 - 1300	174 - 189	36 - 39	12+
1100 - 1200	160 - 174	33 - 36	10+
1000 - 1100	145 - 160	31 - 33	8+

Per ASTM B 850-94 "For Steels of actual tensile strength below 1000 MPa, Heat treatment after plating is not essential."

TABLE 3 Continued

Grade Symbol	Tensile Strength, min. ksi (MPa)	Yield Strength, min. ksi (MPa) ^a	Elongation in 2 in. (50 mm) min. %	Reduction of Area, min. %	Brinell Hardness Number
Ferritic/Austenitic Stainless Steels					
F 30	100-130 (690-903)	65 (450)	25	50	—
F 32	90 (620)	65 (450)	25	45	—
F 33	100 (690)	75 (520)	15	—	—
F 34	116 (807)	80 (550)	15	—	210 max
F 35	116 (807)	80 (550)	15	—	210 max
F 37	116 (807)	80 (550)	25.0	45	—
F 38	116 (807)	85 (590)	25	50	—
F 40	116 (807)	85 (590)	25	40	—
F 42	90 (620)	65 (450)	25	45	—
F 44	100 (690)	80 (550)	25.0	45	—

^a Determined by the 0.2 % offset method. For ferritic steels only, the 0.5 % extension-under-load method may also be used.
^b For austenite over 5 in. (128 mm) in thickness, the minimum tensile strength shall be 25 ksi (169 MPa).
^c For austenite over 1.6 in. (41 mm) in thickness, the minimum tensile strength shall be 25 ksi (169 MPa).
^d Longitudinal. The transverse elongation shall be 25 % in 2 in. or 50 mm.
^e Longitudinal. The transverse reduction of area shall be 45 %.
^f For austenite over 2 in. (50 mm) in thickness, the minimum tensile strength shall be 106 ksi (730 MPa); the minimum yield strength shall be 75 ksi (515 MPa).

7.6 Hardness Tests:
 7.6.1 Except when only one forging is produced, a minimum of two pieces per batch or continuous run as defined in 7.6.2 shall be hardness tested in accordance with Test Methods and Definitions A 370 to ensure that the forgings are within the hardness limits given for each grade in Table 3. The purchaser may verify that the requirement has been met by testing at any location on the forging provided such testing does not render the forging useless.
 7.6.2 When the reduced number of tension tests permitted by 7.5.1.1 is applied, additional hardness tests shall be made on forgings or samples as defined in 7.2 scattered throughout the load (Note 2). At least eight samples shall be checked from each batch load and at least one check per hour shall be made from a continuous run. When the furnace batch is less than eight forgings, each forging shall be checked. If any check falls outside the prescribed limits, the entire lot of forgings shall be reheat treated and the requirements of 7.5.1 shall apply.

7.7 Nondestructive Testing Requirements—Grades F 3V, F 3VCh, and F 2V:
 7.7.1 Impact test specimens shall be Charpy V-notch Type, as shown in Fig. 11a of Test Methods and Definitions A 370. The size of substrate specimens due to material limitations must have prior purchaser approval.
 7.7.2 The Charpy V-notch test specimens shall be obtained as required for tension tests in 7.2, 7.3 and 7.5. One set of three Charpy V-notch specimens shall be taken from each tensile specimen location.
 7.7.3 The longitudinal axis and mid-length of impact specimens shall be located similarly to the longitudinal axis of the tension test specimens. The axis of the notch shall be normal to the nearest heat treated surface of the forging.

7.7.4 The Charpy V-notch tests shall meet a minimum energy absorption value of 40 ft-lbf (54 J) average of three specimens. One specimen only in one set may be below 40 ft-lbf (54 J), and it shall meet a minimum value of 35 ft-lbf (48 J).
 7.7.5 The impact test temperature shall be 0°F (-18°C).

8. Grain Size for Austenitic Grades
 8.1 All H grades shall be tested for average grain size by Test Methods E 112.
 8.1.1 Grades F 304H, F 309H, F 310H, and F 316H shall have a grain size of ASTM No. 6 or coarser.
 8.1.2 Grades F 317H, F 347H, and F 348H shall have a grain size of ASTM No. 7 or coarser.

9. Corrosion Testing for Austenitic Grades
 9.1 Corrosion testing is not required by this specification.
 9.2 Austenitic Grades shall be capable of meeting the intergranular corrosion test requirements described in Supplementary Requirement S10.

10. Cast or Heat (formerly Ladle) Analysis
 10.1 Each heat or furnace ladle of steel shall be analyzed by the manufacturer to determine the percentage of elements prescribed in Table 2. This analysis shall be made from a test specimen preferably taken during the pouring of the steel. For multiple-heat ingots, either individual heat analyses or a weighted average analysis may be reported. The steel shall conform to the chemical composition requirements prescribed in Table 2.
 10.1.1 If the test sample is lost or declared inadequate for chemical determinations, the manufacturer may take alternative samples from appropriate locations near the surface of the ingot or forging as necessary to establish the analysis of the heat in question.
 10.1.2 If consumable remelting processes are employed, a chemical analysis made on one remelted ingot (or the product of one remelted ingot) per heat shall be taken as the heat

Due to previously detected malicious behavior which originated from the network you're using, please request unblock to site. Examples of requirements include origin, composition, physical properties and chemical properties. 1.3 Values in SI shall be obtained by measurement in SI units or by appropriate conversion, using the Rules for Conversion and Rounding in IEEE/ASTM SI 10, of measurements made in other units. Because many chemicals can have more than one name, The Standard Terminology of Aromatic Hydrocarbons and Related Chemicals allows scientists and other chemical users to read a paper or article written by others and easily understand and identify which chemicals are being discussed without the author having to provide extensive definitions within the document. 1.4 This standard does not purport to address all of the safety concerns, if any, associated with its use. It will also identify what test methods are appropriate to determine whether it meets the criteria of the standard. 1.6 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee. A specification standard has a detailed set of conditions and provisions that a material, product, system or service must meet. MORE FROM QUESTIONSANSWERED.NET If all electrical tapes are evaluated using the same test, then it is easier to determine which tape is best suited for a particular use. The Standard Guide for Examination of Typewritten Items helps forensic document examiners decide which procedure should be used to examine a typewritten document, perhaps for a criminal investigation. Standards are developed and written by members of ASTM technical committees which comprise producers, users, consumers and general interest parties, many of whom are scientists. When companies use this standard to classify the copper they sell, it allows buyers to more easily compare prices of the same product from different companies before they make a purchase. If you are attempting to access this site using an anonymous Private/Proxy network, please disable that and try accessing site again. ASTM and ISO aren't always exactly equivalent - the only way to tell for sure is by comparing the descriptions in both naming conventions. Navigate to the online ISO Catalog published by the American National Standards Institute. Note: A number of things could be going on here. 1.5 Warning-Fresh hydraulic cementitious mixtures are caustic and may cause chemical burns to skin and tissue upon prolonged exposure. You can also get the 82-volume book set titled "Annual Book of ASTM Standards," which contains document sheets detailing all of the current ASTM standards. ISO has developed over 18,500 standards, as of publication date. The Standard Classification of Coppers covers kinds of copper available in refinery shapes and wrought products. Click "Go." A list of relevant ISO standards will appear. ASTM stands for the American Society for Testing and Materials and has created six types of standards that relate to manufacturing processes such as testing, materials classification and operation. Engineering, science and the best judgement of professionals from different industries all contribute to the establishment of ASTM standards. Click "keywords" and then type a description for the procedure or product into the "Enter keywords" text box. The Standard Specification for File Folders for Storage of Permanent Records outlines what qualities file folders used in the storage of records and documents should have to achieve a maximum life span. ASTM in full form is the American Society for Testing and Materials, the former name for the organization. Select an ISO standard based on the given description. There isn't a mathematical formula for converting ISO back to ASTM, but you can refer to published tables to find the equivalent specifications in one system or another. For example, the Standard Practice for Functional Inspections and Adjustments of Alpine Ski/Binding/Boot Systems outlines procedures for inspection and adjustment of alpine ski/binding/boot systems. Mehr anzeigen Global standardization has led to the gradual replacement of the American Society for Testing and Materials standard to the International Standard Organization method. The extensive collaboration and depth of industry knowledge from members adds to the recognition and acceptance of ASTM standards by various organizations. The Five ASTM Objectives A set of five strategic goals (or objectives) is used to guide ASTM, as noted by TSI Energy. North Dakota Department of Transportation, Materials & ResearchTo be Filled in by Field PersonnelFor Materials & Research Central Lab Use OnlyNormal Consistency ASTM C187Blaine Fineness ASTM C204Autoclave Expansion ASTM C151Air Content of Mortar ASTM C185Time of Setting-Gillmore Test ASTM C266Time of Setting-Vicat Needle Test ASTM C191Compressive Strength - 50mm Cubes ASTM C109Conformity to SpecificationsCondition of Test Sample as Received North Dakota Department of Transportation, Materials & ResearchTo be Filled in by Field PersonnelFor Materials & Research Central Lab Use OnlyNormal Consistency ASTM C187Blaine Fineness ASTM C204Autoclave Expansion ASTM C151Air Content of Mortar ASTM C165Time of Setting-Gillmore Test ASTM C266Time of Setting-Vicat Needle Test ASTM C191Compressive Strength - 50mm Cubes ASTM C109Conformity to SpecificationsCondition of Test Sample as Received W = Wt of measure & mortar - Wt of measure = Wt of mortar x factor from chartAIR PERMEABILITY: Specific Surface Cell #2AIR PERMEABILITY: Specific Surface Cell #1Correction factor Screen #1 24.42% The American Society for Testing Materials (ASTM) standards have been around since 1898, and it is one of the biggest standard development organizations in the world, according to TSI Energy Solutions. A test method standard has a short and informative description of a procedure to determine a property or constituent of a material, a collection of materials or a product. The development of technical content and providing services are the next two objectives of ASTM. For example, ASTM D638-94b covers tensile evaluations for plastics, including overall length, radius and width. Advanced, unique business services, improved performance processes and a more in-depth comprehension of commercial and consumer needs and priorities are used in creating standards that work for millions of people on a daily basis, according to TSI Energy Solutions. Identify the product specification linked to the ASTM designation. These standards establish useful and accurate baselines for materials manufacturing. 1.2 The values stated in SI units are to be regarded as standard. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use. A practice standard gives specific instructions for performing a specific task or operation. To achieve satisfactory precision, the test method should include details about test apparatus, test specimen, test procedure and calculations of data obtained from the test. ASTM MembersAcross the globe, there are about 30,000 ASTM members located in 140 different countries, according to TSI Energy Solutions. Although the standards are voluntary, they are frequently referred to, and cited in and incorporated into codes, regulations and laws around the world. Based on the individual situation, the user selects the choice or instructions that best suit the situation. A CD-ROM of the standards is available for purchase, and you can buy electronic or printed copies of specific standards over the internet from ASTM. 1.1 This test method covers the determination of the air content of hydraulic cement mortar under the conditions hereafter specified. The six types are test method, specification, classification, practice, guide and terminology standards. No other units of measurement are included in this standard. Over 12,500 global standards have been developed during the ASTM's 120 years of existence. An example would be the Standard Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications. Technische Cookies können nicht deaktiviert werden, da sie für das Speichern von Produkten im Warenkorb, das Einrichten von Filtern, das Durchführen des Einkaufsvorgangs, die Favoritenliste und die Datenschutzeinstellungen verantwortlich sind. The consensus ensures the document meets the requirements that go into generating ASTM procedural and regulatory constraints, so it then meets ASTM International standards. Why ASTM Standards Are CreatedImproving people's lives is the goal of the American Society for Testing Materials, according to ASTM. ASTM develops six types of standards. An ASTM standards PDF is prepared and published using ASTM International consensus standards. The first two of these objectives are leadership and organizational vitality. Technische Cookies sind für das ordnungsgemäße Funktionieren der Website und aller Funktionen, die die Website bietet, unerlässlich. A classification standard outlines the requirements to systematically assign materials, products, systems or services into groups. ...but your activity and behavior on this site made us think that you are a bot. Global technical expertise is the last of the five objectives used by ASTM when establishing standards. Each individual standard can be downloaded from the ASTM website. Plus, there are several different industries that are overseen by and charged with following ASTM standards. What Is an ASTM Standard?An ASTM standard is a document that's been created to establish formal procedures and guidelines for different industries to follow, according to ASTM. A guide standard has several choices or instructions but does not advise a particular action. ASTM Standards are documents developed and published by ASTM International. This standard outlines tests to evaluate the safety of electrical tape. When companies and organizations ascribe to these five ASTM objectives, it helps to guide them in observing better business practices. ASTM Standards FormatsThere are a variety of formats available for accessing ASTM International's 12,000 published standards, according to ASTM. A terminology standard outlines and defines terms, symbols, abbreviations and acronyms used in a field or industry. For example, ISO 527-5:2009 is "Plastics - Determination of tensile properties - Part 5: Test conditions for unidirectional fibre-reinforced plastic composites." Tips Although you don't need to purchase the actual catalog to get the ISO number, you may want to purchase one to be sure the material or procedure is exactly the same.

16-02-2022 · IDM Members' meetings for 2022 will be held from 12h45 to 14h30. A zoom link or venue to be sent out before the time. Wednesday 16 February; Wednesday 11 May; Wednesday 10 August; Wednesday 09 November

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