|  |  |  |  |
| --- | --- | --- | --- |
| **umber Code** | **Entity Code** | **Character** | **Description** |
| &#34; | &quot; | " | Quotation Mark |
| &#38; | &amp; | & | Ampersand |
| &#47; | &frasl; | / | Slash |
| &#60; | &lt; | < | Less Than Sign |
| &#62; | &gt; | > | Greater Than Sign |
| &#130; | &sbquo; | ‚ | Single Low-9 Quote |
| &#132; | &bdquo; | „ | Double Low-9 Quote |
| &#134; | &dagger; | † | Dagger |
| &#135; | &Dagger; | ‡ | Double Dagger |
| &#137; | &permil; | ‰ | Per Mill Sign |
| &#139; | &lsaquo; | ‹ | Single Left Angle Quote |
| &#145; | &lsquo; | ‘ | Left Single Quote |
| &#146; | &rsquo; | ’ | Right Single Quote |
| &#147; | &ldquo; | “ | Left Double Quote |
| &#148; | &rdquo; | ” | Right Double Quote |
| &#153; | &trade; | ™ | Trademark Symbol |
| &#155; | &rsaquo; | › | Single Right Angle Quote |
| &#160; | &nbsp; |  | Non Breaking Space |
| &#161; | &iexcl; | ¡ | Inverted Exclamation Point |
| &#162; | &cent; | ¢ | Cent Sign |
| &#163; | &pound; | £ | Pound Sterling |
| &#164; | &curren; | ¤ | General Currency Sign |
| &#165; | &yen; | ¥ | Yen Sign |
| &#166; | &brvbar; | ¦ | Broken Vertical Bar |
| &#167; | &sect; | § | Section Sign |
| &#168; | &uml; | ¨ | Umlaut (Dieresis) |
| &#169; | &copy; | © | Copyright Symbol |
| &#170; | &ordf; | ª | Feminine Ordinal |
| &#171; | &laquo; | « | Left Angle Quote, Left Guillemet |
| &#172; | &not; | ¬ | Not Sign |
| &#173; | &shy; |  | Soft Hyphen |
| &#174; | &reg; | ® | Registered Trademark |
| &#175; | &macr; | ¯ | Macron, Overline |
| &#176; | &deg; | ° | Degree Sign |
| &#177; | &plusmn; | ± | Plus or Minus |
| &#178; | &sup2; | ² | Superscript Two |
| &#179; | &sup3; | ³ | Superscript Three |
| &#180; | &acute; | ´ | Acute Accent |
| &#181; | &micro; | µ | Micro Symbol |
| &#182; | &para; | ¶ | Paragraph Symbol |
| &#183; | &middot; | · | Middle Dot |
| &#184; | &cedil; | ¸ | Cedilla |
| &#185; | &sup1; | ¹ | Superscript One |
| &#186; | &ordm; | º | Masculine Ordinal |
| &#187; | &raquo; | » | Right Angle Quote, Right Guillemet |
| &#188; | &frac14; | ¼ | One Fourth Fraction |
| &#189; | &frac12; | ½ | One Half Fraction |
| &#190; | &frac34; | ¾ | Three Forths Fraction |
| &#191; | &iquest; | ¿ | Inverted Question Mark |
| &#192; | &Agrave; | À | Capital A with Grave Accent |
| &#193; | &Aacute; | Á | Capital A with Acute Accent |
| &#194; | &Acirc; | Â | Capital A with Circumflex Accent |
| &#195; | &Atilde; | Ã | Capital A with Tilde |
| &#196; | &Auml; | Ä | Capital A with Dieresis/Umlaut |
| &#197; | &Aring; | Å | Capital A with Ring |
| &#198; | &AElig; | Æ | Capital AE Dipthong |
| &#199; | &Ccedil; | Ç | Capital C with Cedilla |
| &#200; | &Egrave; | È | Capital E with Grave Accent |
| &#201; | &Eacute; | É | Capital E with Acute Accent |
| &#202; | &Ecirc; | Ê | Capital E with Circumflex Accent |
| &#203; | &Euml; | Ë | Capital E with Dieresis/Umlaut |
| &#204; | &Igrave; | Ì | Capital I with Grave Accent |
| &#205; | &Iacute; | Í | Capital I with Acute Accent |
| &#206; | &Icirc; | Î | Capital I with Circumflex Accent |
| &#207; | &Iuml; | Ï | Capital I with Dieresis/Umlaut |
| &#208; | &ETH; | Ð | Capital Eth |
| &#209; | &Ntilde; | Ñ | Capital N with Tilde |
| &#210; | &Ograve; | Ò | Capital O with Grave Accent |
| &#211; | &Oacute; | Ó | Capital O with Acute Accent |
| &#212; | &Ocirc; | Ô | Capital O with Circumflex Accent |
| &#213; | &Otilde; | Õ | Capital O with Tilde |
| &#214; | &Ouml; | Ö | Capital O with Dieresis/Umlaut |
| &#215; | &times; | × | Multiplication Sign |
| &#216; | &Oslash; | Ø | Capital O with a Slash |
| &#217; | &Ugrave; | Ù | Capital U with Grave Accent |
| &#218; | &Uacute; | Ú | Capital U with Acute Accent |
| &#219; | &Ucirc; | Û | Capital U with Circumflex Accent |
| &#220; | &Uuml; | Ü | Capital U with Dieresis/Umlaut |
| &#221; | &Yacute; | Ý | Capital Ywith Acute Accent |
| &#222; | &THORN; | Þ | Capital Thorn |
| &#223; | &szlig; | ß | Small Sharp s |
| &#224; | &agrave; | à | Small a with Grave Accent |
| &#225; | &aacute; | á | Small a with Acute Accent |
| &#226; | &acirc; | â | Small a with Circumflex Accent |
| &#227; | &atilde; | ã | Small a with Tilde |
| &#228; | &auml; | ä | Small a with Dieresis/Umlaut |
| &#229; | &aring; | å | Small a with Ring |
| &#230; | &aelig; | æ | Small ae Dipthong |
| &#231; | &ccedil; | ç | Small c with Cedilla |
| &#232; | &egrave; | è | Small e with Grave Accent |
| &#233; | &eacute; | é | Small e with Acute Accent |
| &#234; | &ecirc; | ê | Small e with Circumflex Accent |
| &#235; | &euml; | ë | Small e with Dieresis/Umlaut |
| &#236; | &igrave; | ì | Small i with Grave Accent |
| &#237; | &iacute; | í | Small i with Acute Accent |
| &#238; | &icirc; | î | Small i with Circumflex Accent |
| &#239; | &iuml; | ï | Small i with Dieresis/Umlaut |
| &#240; | &eth; | ð | Small eth |
| &#241; | &ntilde; | ñ | Small n with Tilde |
| &#242; | &ograve; | ò | Small o with Grave Accent |
| &#243; | &oacute; | ó | Small o with Acute Accent |
| &#244; | &ocirc; | ô | Small o with Circumflex Accent |
| &#245; | &otilde; | õ | Small o with Tilde |
| &#246; | &ouml; | ö | Small o with Dieresis/Umlaut |
| &#247; | &divide; | ÷ | Division Sign |
| &#248; | &oslash; | ø | Small o with a Slash |
| &#249; | &ugrave; | ù | Small u with Grave Accent |
| &#250; | &uacute; | ú | Small u with Acute Accent |
| &#251; | &ucirc; | û | Small u with Circumflex Accent |
| &#252; | &uuml; | ü | Small u with Dieresis/Umlaut |
| &#253; | &yacute; | ý | Small y with Acute Accent |
| &#254; | &thorn; | þ | Small Thorn |
| &#255; | &yuml; | ÿ | Small y with Dieresis/Umlaut |
| &#402; | &fnof; | ƒ | Small f with hook |
| &#913; | &Alpha; | Α | Greek Capital Letter Alpha |
| &#914; | &Beta; | Β | Greek Capital Letter Beta |
| &#915; | &Gamma; | Γ | Greek Capital Letter Gamma |
| &#916; | &Delta; | Δ | Greek Capital Letter Delta |
| &#917; | &Epsilon; | Ε | Greek Capital Letter Epsilon |
| &#918; | &Zeta; | Ζ | Greek Capital Letter Zeta |
| &#919; | &Eta; | Η | Greek Capital Letter Eta |
| &#920; | &Theta; | Θ | Greek Capital Letter Theta |
| &#921; | &Iota; | Ι | Greek Capital Letter Iota |
| &#922; | &Kappa; | Κ | Greek Capital Letter Kappa |
| &#923; | &Lambda; | Λ | Greek Capital Letter Lambda |
| &#924; | &Mu; | Μ | Greek Capital Letter Mu |
| &#925; | &Nu; | Ν | Greek Capital Letter Nu |
| &#926; | &Xi; | Ξ | Greek Capital Letter Xi |
| &#927; | &Omicron; | Ο | Greek Capital Letter Omicron |
| &#928; | &Pi; | Π | Greek Capital Letter Pi |
| &#929; | &Rho; | Ρ | Greek Capital Letter Rho |
| &#931; | &Sigma; | Σ | Greek Capital Letter Sigma |
| &#932; | &Tau; | Τ | Greek Capital Letter Tau |
| &#933; | &Upsilon; | Υ | Greek Capital Letter Upsilon |
| &#934; | &Phi; | Φ | Greek Capital Letter Phi |
| &#935; | &Chi; | Χ | Greek Capital Letter Chi |
| &#936; | &Psi; | Ψ | Greek Capital Letter Psi |
| &#937; | &Omega; | Ω | Greek Capital Letter Omega |
| &#945; | &alpha; | α | Greek Small Letter Alpha |
| &#946; | &beta; | β | Greek Small Letter Beta |
| &#947; | &gamma; | γ | Greek Small Letter Gamma |
| &#948; | &delta; | δ | Greek Small Letter Delta |
| &#949; | &epsilon; | ε | Greek Small Letter Epsilon |
| &#950; | &zeta; | ζ | Greek Small Letter Zeta |
| &#951; | &eta; | η | Greek Small Letter Eta |
| &#952; | &theta; | θ | Greek Small Letter Theta |
| &#953; | &iota; | ι | Greek Small Letter Iota |
| &#954; | &kappa; | κ | Greek Small Letter Kappa |
| &#955; | &lambda; | λ | Greek Small Letter Lambda |
| &#956; | &mu; | μ | Greek Small Letter Mu |
| &#957; | &nu; | ν | Greek Small Letter Nu |
| &#958; | &xi; | ξ | Greek Small Letter Xi |
| &#959; | &omicron; | ο | Greek Small Letter Omicron |
| &#960; | &pi; | π | Greek Small Letter Pi |
| &#961; | &rho; | ρ | Greek Small Letter Rho |
| &#962; | &sigmaf; | ς | Greek Small Letter Final Sigma |
| &#963; | &sigma; | σ | Greek Small Letter Sigma |
| &#964; | &tau; | τ | Greek Small Letter Tau |
| &#965; | &upsilon; | υ | Greek Small Letter Upsilon |
| &#966; | &phi; | φ | Greek Small Letter Phi |
| &#967; | &chi; | χ | Greek Small Letter Chi |
| &#968; | &psi; | ψ | Greek Small Letter Psi |
| &#969; | &omega; | ω | Greek Small Letter Omega |
| &#977; | &thetasym; | ϑ | Greek Small Letter Theta Symbol |
| &#978; | &upsih; | ϒ | Greek Upsilon with Hook Symbol |
| &#982; | &piv; | ϖ | Greek pi Symbol |
| &#8226; | &bull; | • | Bullet / Black Small Circle |
| &#8230; | &hellip; | … | Horizontal Ellipsis |
| &#8242; | &prime; | ′ | Prime / Minutes / Feet |
| &#8243; | &Prime; | ″ | Double Prime / Seconds / Inches |
| &#8254; | &oline; | ‾ | Overline |
| &#8465; | &image; | ℑ | Blackletter Capital I / Imaginary Part |
| &#8472; | &weierp; | ℘ | Script Capital P / Power Set |
| &#8476; | &real; | ℜ | Blackletter Capital R / Real Part Symbol |
| &#8501; | &alefsym; | ℵ | Alef Symbol / First Transfinite Cardinal |
| &#8592; | &larr; | ← | Left Arrow |
| &#8593; | &uarr; | ↑ | Up Arrow |
| &#8594; | &rarr; | → | Right Arrow |
| &#8595; | &darr; | ↓ | Down Arrow |
| &#8596; | &harr; | ↔ | Left-Right Arrow |
| &#8629; | &crarr; | ↵ | Carrige Return / Downward Left Arrow |
| &#8656; | &lArr; | ⇐ | Double Left Arrow |
| &#8657; | &uArr; | ⇑ | Double Up Arrow |
| &#8658; | &rArr; | ⇒ | Double Right Arrow |
| &#8659; | &dArr; | ⇓ | Double Down Arrow |
| &#8660; | &hArr; | ⇔ | Double Left-Right Arrow |
| &#8704; | &forall; | ∀ | For All |
| &#8706; | &part; | ∂ | Partial Differential |
| &#8707; | &exist; | ∃ | There Exists |
| &#8709; | &empty; | ∅ | Empty Set |
| &#8711; | &nabla; | ∇ | Nabla / Backwards Difference |
| &#8712; | &isin; | ∈ | Element Of |
| &#8713; | &notin; | ∉ | Not An Element of |
| &#8715; | &ni; | ∋ | Contains As Member |
| &#8719; | &prod; | ∏ | Product Sign |
| &#8721; | &sum; | ∑ | Sumation |
| &#8722; | &minus; | − | Minus Sign |
| &#8727; | &lowast; | ∗ | Asterisk Operator |
| &#8730; | &radic; | √ | Square Root / Radical Sign |
| &#8733; | &prop; | ∝ | Proportional To |
| &#8734; | &infin; | ∞ | Infinity |
| &#8736; | &ang; | ∠ | Angle |
| &#8743; | &and; | ∧ | Logical And / Wedge |
| &#8744; | &or; | ∨ | Logical Or / Vee |
| &#8745; | &cap; | ∩ | Inersection / Cap |
| &#8746; | &cup; | ∪ | Union / Cup |
| &#8747; | &int; | ∫ | Integral |
| &#8756; | &there4; | ∴ | Therefore |
| &#8764; | &sim; | ∼ | Tilde Operator / Similar To / Varies With |
| &#8773; | &cong; | ≅ | Approximately Equal To |
| &#8776; | &asymp; | ≈ | Almost Equal To / Asymptotic To |
| &#8800; | &ne; | ≠ | Not Equal To |
| &#8801; | &equiv; | ≡ | Identical To |
| &#8804; | &le; | ≤ | Less Than or Equal To |
| &#8805; | &ge; | ≥ | Greater Than or Equal To |
| &#8834; | &sub; | ⊂ | Subset Of |
| &#8835; | &sup; | ⊃ | Superset Of |
| &#8836; | &nsub; | ⊄ | Not A Subset Of |
| &#8838; | &sube; | ⊆ | Subset Of Or Equal To |
| &#8839; | &supe; | ⊇ | Superset Of Or Equal To |
| &#8853; | &oplus; | ⊕ | Circled Plus / Direct Sum |
| &#8855; | &otimes; | ⊗ | Circled Times / Vector Product |
| &#8869; | &perp; | ⊥ | Up Tack / Orthogonal To / Perpendicular |
| &#8901; | &sdot; | ⋅ | Dot Operator |
| &#8968; | &lceil; | ⌈ | Left Ceiling / Apl Upstile |
| &#8969; | &rceil; | ⌉ | Right Ceiling |
| &#8970; | &lfloor; | ⌊ | Left Floor / Apl Downstile |
| &#8971; | &rfloor; | ⌋ | Right Floor |
| &#9001; | &lang; | 〈 | Left-Pointing Angle Bracket / Bra |
| &#9002; | &rang; | 〉 | Right-Pointing Angle Bracket / Ket |
| &#9674; | &loz; | ◊ | Lozenge |
| &#9824; | &spades; | ♠ | Black Spade Suit |
| &#9827; | &clubs; | ♣ | Black Club Suit |
| &#9829; | &hearts; | ♥ | Black Heart Suit |
| &#9830; | &diams; | ♦ | Black Diamond Suit |