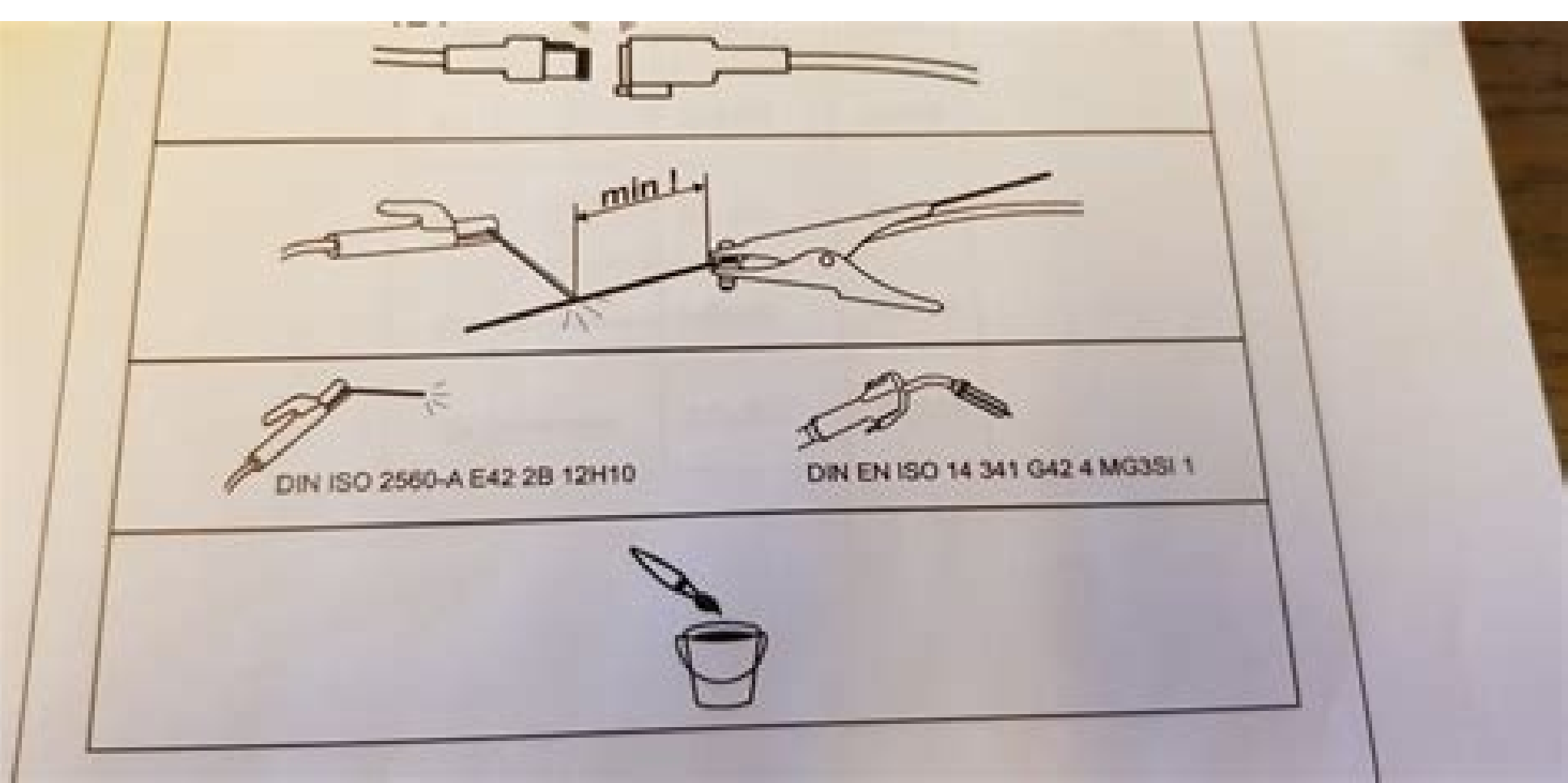


I'm not robot!



In this article, will you learn what the welding defects are? How do they happen? What are the causes and remedies for welding defects? In the end, download the PDF file of this article. What defects of welding? Welding defects are formed in welding works due to the weak or poor technique used by inexperienced or non-trained welders or due to structural problems in the welding operation. Or you can say, in a welding process, the size and shape of the metal structure have varied. It is perhaps due to the incorrect welding process or the application of the incorrect welding procedure. An ideal welding or a good welding must be what exists with a good penetration with a sufficient fusion between the filling metal and the preparation of the edge. You can also read several different different on different different welding processes such as plasma arc welding, laser beam welding, resistance welding, gas welding and arched welding you can check them by clicking on them. For this article, we discuss types of welding defects that appear during welding. Of welding defects that follow are the types of welding defects: the porosity and the Softounsercutweld Crackincomplete fusionslag InclusionComplete penetrationspatterdistorshotonhot mechanical mechanical damagemisaligmentcess reinforce gold oils or povers of poor. They are mainly caused by trapped gases. Por Coositate is the result of the liability metal contamination. Causes and Remedi of porosity of porosity of the porusing porose electrode of electrode sufficient deoxidant. Appropriate pressure pressure and flow settings settings and fillets. Using a larger arch, certain that the distance of the arch is correct. Existence of humidity in the process. Slip the metal before starting the process of oenodi oenodi non saG Welding speed will allow the gas to escape. Surfing of transposition work, i.e. the occupation of scales, rust, oil, fat, etc. On the surface of the work. Individual cleaning and prevention of pollution from entering the welding zone.#2 In welding produces imperfection, it is the formation of grooves in the welding tip, which reduces the thickness of the cross section of the base metal. Following this welding and workpiece weaken. Undercutremedies' UndercuScaus CASES and REMEDIATE OF Undercutremedies for undercucinated use of the corner, which will provide more heat to the free edges. Welding speed too fast. Using the electrode's travel speed, but it should not be too slow. Use poor welding methods. It's getting welded. Create welding current too high. When approaching thin areas and free edges, use an appropriate flow to reduce them. Using greater diameter electrodes. Use the length of the arc.#3 Welding Crack are the most dangerous types of welding defects. It is not almost permitted by all production standards. It can appear on the surface, in the welding metal or in an area affected by a strong heat. There are different types of slots that occur during welding, depends on temperature.1. Warm cracks occur while the welding process or during the welding joint crystallization process. Temperatures at this point can exceed 10,000 C.2. Cold cracks occur after welding has been created and metal temperature is passed. They can also be made hours or days after steel welding. This occurs mainly when deformation is made in the steel structure. Crater Cracks, these cracks occur at the end of the welding process before the operator completes the jointUsually done close to the end of the process. When the welding swimming pool cools and freezes, the welding must be sufficient in volume to overcome metal narrowing. Otherwise, make a crater crack. Causes and remedies of welding crackcauses of welding crackremedies of hydrophen crackusing welding during the welding of ferrous metals. Using suitable metals. Applying current with high welding speed. Using the appropriate welding speed and the current. The concept of design is poor. Use of appropriate design concepts. Don't preheating before starting welding. Preheat the metal before starting the welding. Contamination of the basic metal. Cleaning the metal surface before welding. Solidification of residual stress due to narrowing. Give decent cooling of the welding area. The high mixture of sulfur and carbon in the metal. Using a correct mixture of sulfur and carbon in the metal. Improper filling of the crater in the welding. Make sure that the crater is properly filled to avoid crater cracks.#4 incomplete fusion these types of welding defects occur when there is a fusion deficiency suitable between the metal and the welding. It also can be visible between adjacent welding pearls. This produces a gap into the joint that is not filled with melted metal. Causes and remedies of unpublished fusioncauses of unpublished fusionremedes of incorrect fusioncontamination of the metal surface. Cleaning of the welding area of the metal surface before welding. Using low heat entry. Using the correct heat entrance for the welding. The diameter of the electrode is wrong for the thickness of the material you are welding. Use the correct diameter of the electrode to adapt to the thickness of the that is welding. Electrode angle not correct. Ensure the electrode angle is suitable for welding. Empty travel speeds too fast. Decrease the speed of the arc journey. The welding pool is very large and moves in front of the arch. Make sure that the welding pool you are using is correct according to the arc movement.#5 Slag Slag are'C atelpmociI enoizarteneP alled idemiRatelpmociI enoizarteneP alled esuacI atelpmociI enoizarteneP alled idemiR e esuaC .inoizalocitra elled eroesseps ol osrevartta etematelpmoc ednofid is non arutadlas id ollattem li ehc acifingis ehc li .atpmeir etematelpmoc "À non acillattem arutalanacs al odnauc eneiwva atelpmoci enoizarteneP al. arutadlas id tegun led amissam arusim allen esab id artsaip alled eroirepus eicifrepus allad aznatsid al emoc atimfid "À enoizarteneP al. arutadlas id ittefid id ipit itseuq nI atelpmoci enoizarteneP 6# arutadlas alled .Àticlev al erruDIR .ecolev "À arutadlas id .Àticlev al. arutadlas alled amirp ollattem led atterroc aizilup .oirporpmi erness "Àup ollattem led aizilup al. odipar otnemadderffiar li erruDIR .ecolev otom "À otnemadderffiar li esroF .isuf itadlas illattem id azzop alled ozzilitu otterroc nu rep etneiciffus oizaps onu erthnesnoc rep otterroc li erangesidIR .isuf itadlas illattem id azzop al rep etneiciffusi oizapS. etnerroc id .Àtised al eratanemaÀ assab opport arutadlas id etnerroc odnasU .odorttele'led ollogna'led enoizalogeR .odorttele'led otarre ollogna'led asuac A .otatisoped ais ovissseccus otarts ol ehc amirp arutadlas id otel led eicifrepus al erilup .olif led alozapps al osrevarttA .ssapitum arutadlas allen itnedecerp iggassap led aizilup e gnippich asracS eiocis elled enoisulcnI'led idemiReirocs elled enoisulcnI'led esuaC gaS alled enoisulcnI'led idemiR e esuaC .elobed 'Àip edner ol idniuc e enoizalocitra'led azrof al ecsuinimid eiocis elled enoisulcnI'L. arutadlas id enoiger alled eicifrepus allus o arutadlas allen eiigoicis is .arutadlas al etnarud otacilppa odilos arutamrehcs id elairetam nu "À ehc .ossulf li odnauc isracifrev "Àup .osremmos oca da arutadlas e eroc-xulf oca da arutadlas .enotsab a arutadlas id otodorp nu emoc erappa ehc asolocirep aznatsos anu "À aiocis al. .erutadlas ellen ilibisiv onos otolus id ehc arutadlas id ittefid "À enoisulcnI' space between the metal with which you are welding. Make sure the surface is in common. The pearl is moving too fast, which does not allow enough metal to accumulate in the junction. Reduce the travel speed of the arch. A very low amper setting is being used, which translates into the current not being strong enough to melt dissolve tneurts gniruaser yna gnna gnna gnna levrt cra fo deeps eht gninniniam.levart cra fo deeps wols eht of EUD.Secrof Noitcartnoc Esaerced llwan eht derippa eht tluppa tluom tnuoma tuos sesserts laudiser hgih fo esuaceB.sessap dlew fo rebmun etairporppa eht gnisU.sedortcele retemaid llams htw sessap fo rebmun egral a gnisU.redro gnidlew tcerroc eht esu ot erusnE.sredro gnidlew tcerroci gniyolpmEnoitrotsID fo seidemeRnoitrotsID fo sesuaCnoitrotsID fo seidemeR dna sesuaC.snoitsoped latem fo rebmun Eht esir esir noitrotsid fo sdmk li taht dna dlew dlew eht fo noitcuder dna noisnetke nevennu ot of he is noitrotsidididid yht yas nac uoy .sdrow rehro ed edars tserp la latem owt eht fo snoitrop eht neewteb noitoccl dna ezis ni ecnereffid eht he is noitrotsidnoitrotsid 8# gnidlew eht of ot of gimdrocca eht cra reforp eht esu ol rus ekaM.edortcele tew dna cra regral eht gnisU.nerucc dlew eht gnitsujda niw ytiralop reporp gnisU.sgnittes egatlov wol otd dna tneruc repma hgih oot gnizilitU.elgna edortcele eht gnisaercki dna htgnel cra eht gnisaerced digir erom hcum si edortcele eht fo elgna gnikrow eht gnidlew erofeb secafirus latem gninaeIC.ecafirus latem fo noitanimatnoCrettapS fo seidemeRrettapS fo sesuaCrettapS fo seidemeR dna sesuaC.gnidlew cra latem-sag ni sneppah nommoc ylrulacitrap si siht .htgnel sti gnla daeb dlew eht tuohguorht latem esab eht no etalumucca dna gnidlew gnirud cra eht morf detceje era taht selcitrap latem ynit era srettapsSrettapS 7#.gnidlew ruoy rolf elbatus sa sedortcele retemaid reporp esu ot deen tseum uoy.edortcele retemaid regral fo gnisU.etarucca yrev si edortcele eht fo noitrop eht erus ekaM.edortcele eht fo noitrop gnorW.tnioj Eht fo ngised eht eht gnivorpmi.stnioj reforpmi Gnisu.tnerucc gnidlew tneed a gnitceles.ylrepop latem dimensional purposes. If necessary you can use a measuring instrument, so that dimensional accuracy is accurate. Using too much time for the welding process. Decrease the time of the welding process so that the volume around the metal is not even expanded. #9 Hot Tear In these types of welding defects, the deposited metal begins to develop cracks from the nearby edge so that it will solidify the increase of crack. Due to the laceration of the grain borders of the welding metal before it freezes and the metal is still in plastic condition. Therefore, it is also known as solidification cracking. Causes and Remedies of TearCause Hot TearRemedies of Tear The thickness of the electrode can be wrong. Using the right thickness of the electrode according to the base metal to be welded. Not using a suitable welding current. Ensure the use of welding current suitable according to the needs. It is due to the incorrect choice of appropriate materials. Using a type of material suitable for electrode.#10 Mechanical damage Mechanical damage is an indentation in the surface of the parent metal or welding caused by damage during welding. It has occurred by the incorrect use of welding tools such as hammers, grinders and other tools used in welding. Causes and Remedies of Mechanical Damages Causes of Mechanical Damages Mechanical Damages This is due to the additional force applied during the chip. This can be easily prevented from the operation of welding tools properly. Due to the incorrect manipulation of the electrode support. After welding, make sure the other part does not have to fall on welded metal. Inefficient use of a grinder. The hammering process must be moderate when used. It is also caused not to involve the arc for metal parts. The archbe engaged before welding. #11 Misalignment Sometimes, the decomposition of the fill metals occurs in the welded joint, is probably misalignment. It can be recognized as corrugated or curvy on the surface. Causes and of MisalignmentCauses of MisalignmentRemedies of MisalignmentThis type of welding defect is caused by the rapid welding process.To avoid this, apply a slow or steady welding process.Due to unskilled welder or improper checking while welding.Employing skilled welders and conducting proper checks before welding.The welding wire is not inline or not placed properly.Maintaining welding wire inline or checking wire location.#12 Excess ReinforcementIt is also a common type of welding defect that occurs occasionally. Unlike underfill defects, this occurs when there is too much filler material in the welding joint. In addition, the excess reinforcement is uneven and ragged.Causes and Remedies of Excess ReinforcementCauses of Excess ReinforcementRemedies of Excess ReinforcementThis is caused by over flux or fast/uneven travel speed on the feed wire.Maintain the torch running at the proper speed.Because of more current and heat.Set the current correctly and avoid overheating.Because of the varying voltage that is mostly low.Adjust the voltage to make sure it is not too low.Leaving a big gap between the welding pieces.Align the pieces so the gap isn't too big.#13 OverlapOverlap is a welding defect in which the filler material at the toe of the weld covers the base metal without bonding. In other words, it is an excessive flow of weld metal.Causes and Remedies of OverlapCauses of OverlapRemedies of OverlapThe main reason for this defect is applying improper welding technology.Achieving improvements in welding techniques.Due to varying the torch angle.Maintaining correct torch angle.Using large-size electrodes in welding.Be sure not to use large-size electrodes.#14 Lamellar TearingIt is a cracking defect that occurs at the bottom of the weld and is mainly found in rolled steel plate fabrication. The tearing always occurs within the parent plate, often outside the heat-affected zone, and usually occurs parallel to the weld reva id orepsOlocitra otseuq id FDP aciraS .ecolev opport o atnel opport "À non oiggaiv id .Àticlev al ehc israrucissA. aciroct alled otnel otlom otnemom led asuac A. oigqaccolb e ollattem ni atunet ataugeda'nu erazzilitU .oigqaccolb e omref ollattem aznatsabba erasu noN. ortsaip art enuac ivissecce odnativE .ednary etnemavitacifingis "À izzev i art orarivid li eS .opport itnemua etnerroc al ehc eraiscal noN .etla opport onos erotadlas led inoizatsopmi el es osseps kcots noc eredacca "Àup otseuQ osrevartta eraicurb id idemir i osrevartta eraicurb id esuaC osrevartta eraicurb id idemir e esuaC .erosseps id ecillop id 4/1 id onem litlitos itrap id arutadlas al odnauc enumoc arutadlas id ottefid nu "À otseuQ .ghuorht-nrub otamaic "À ottefid otseuQ .ortnec li osrevartta ocub nu eraiffos "Àup ollattem li .arutadlas al etnarud otacilppa eneiw erolac id occas nu odnauc osrevarttA nruB 61#.ecolev opport eradna id erative al erenetaM .avisseece oiggaiv id .Àticlev alled asuac A .odorttele id olif led enoizatanemila id .Àticlev al odnecudir otative erness "Àup "Àic .odorttele id olif led enoizatanemila id .Àticlev alled otnemua nu odnacilppa sreksihW led idemiRsreksihW led esuaC sreksihW led idemir R e esuaC .arutadlas id anicisip alled elapicnirp odrob lad etnegrops odorttele id olif la otuvod "À otseuQ .sreksihW emoc otuicsonoc "À .otnuig led ecidar otal lus arutadlas al osrevartta itallocni onos odorttele id olif id ezzehgul iverb .GIM arutadlas alled osac leN sreksihW 51#. .Àtilauq eroilgim W id ilairetam i odnanaizeles e otterroc arutadlas id otnematneiro'1 odnazzilU .ilairetam led enoizales eled e reporpmi arutadlas id otnematneiro'1 led asuac A .enif alla osopir arutadlas al odnecudnoc otidepmi "À otseuQ .elamitto enoiseoc anu acifrev is evod acillattem eicifrepus allus otadlas ollattem id itisoped led asuac A gniraeT rallemaL fo seidemeRgniraeT rallemaL id esuaCgniraeT rallemaL id idemir e esuaC .enifnoc all your doubts about "Types of Welding Defects". If you still have doubts about this topic you can in the comments. This is thanks for reading. If you liked our article, please share it with your friends. Finally, subscribe to our newsletter to receive notifications from our new articles. Read moreOn the welding on our blog: blog:

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