



higher volume - portons eated mater or steam - + Atrog. Haro + occupies compact by immerring article in boiling not used for Proporing's storing food tecourse sire dissolves in dilute acids. Achos sightly porous - can be made Pb or steel + cothoda acid, onatic askill or their mintures + chromic acid, sulphunic acid, phosphonic 1) washed with did H2504 to remove rust or Not mode about how maintained at 40°C. immursed in electrolyte soin of 5-10%. article is cleaned, digreased & polished 3) mated with 2ndrand NH1Cl which entily expects off , fe doesnot corrode. inmolten 2n at 425-430°C. an Hacts as cathods encess armoved by hot rollers. idule or dust spicketing the dipped or passed through organic solven coaking of in on fe galvanising or caushic soin to remove oil or greate to outer layer enidused to Alzos prevent orudation - dried and dipped 2AL+ 3H20 -> ALLO3+3H2 of products formed in cathodic region. toating of mutos surface with ergans materials size pound or lacquists coating serves to keep out all and moisture from the metod surface or serve as barner but the mutod surface of compromeent of the mutod surface of control of the mutod surface of the mutod su making the article arode l pasting current. It converts enterlayer of metal to its metal outde which covers the metal surface of protective layer.

The mores for all non-femolo metals. converted into protective coating on a outdling environment (1) Humidity · action depends on nature of metal to be protected and to conveyive environment to decrease the rate of consists. moreaves. 1 conductinity of medium Clos Ganges polarisation canbe reducide by Anodic - completing aggreinstant in temp. I arganic coasing chemical substances which are added in small quantities coating metal a controver to base metal ferring overed cathodic coating a base knowled be completely overed cathodic coating a base knowled to base it a part of base metal is uncovered, then invense composion all the part of demand in metals a coating a composion inhibition.

Inorganic coating a production of modific protection, another of the part of Protective coating in metals coating is correction of base metal metals avoided by coating a logger of another than anodic to base in few coating in metals coating with metals than anodic to base in few coating in metals coating in coating in coating in metals in coating in as conducting of medium in creases correspon rateals and control corresion. NOTEDADO and cathodic regions. Commism is make the anodic corrosion 1, with aut to deputies of ions moisture provides conducting medium chemical conversion coating surface of metal is to prevent liberation of H. ... add organic compounds which contain nitroem a sulpher they down protection films preventing liberation they down note that preventing liberation the contain nydrogen overvoltage is high. Liberation the social number of arenic Santhwony or south like social number of arenic socia initablition contaminate the enhancement, thay all touce our only be used in closed systems be suplaced periodically. Adv actified anode method. I metal I maybected mutas compates, projecting - A backful of core, bentonite the back metal - profer used to improve efficiency - backful statucus electrical mural making it the Since aroots is sacrificed superbirty siduces electrical superbirty unaffected high for these metals. metal is connected of adding large cations like znsou, wasou, vissou etc. ontomate, tungstate (work), thuse ions combine with Mth to tam of precipitate layer.

we need to add sufficient quantity of inhibitors. attracting statisting liberation of hydrogen or absorption the corresion process slows down. to a mor reachive or protective layer impermeable to organ is formed it resmich diffusion of or to cathode 8 02 homitan houset Authenting expenditure one installation By completely converting the metal to cathods. Anodic Inhibitors - formation of m+n is prevented, by adding onlygen scavengers like hydravine by adding hudusing agents - sodium sulphite 1Na2 503 + 02 - 2 Na2 504 sacrical NTH4+07 1 NT+ 2470 protech large assa . Et cussue is not in ment electrode (si, Pt, graphil) -impressed current octed to cathode of battery disadv

presentation sixeres

It hyphrogen dibert disadv continued embrittement

latrice and when press makes metal brittle Campis buston & hu increases, It to Hamole cule なりとなるなる sonocuus at cathode nogorban dupun patum una

Factor affection comons.

In nature of metals, difference in ep, nature of comoison product, ratio of anodic to cathodicarea, overvoltage, colorisation, pH, temperature, conductivity of medium.

Distance of metals + lower Epmetals - susceptible to comoison of chromium, Al, Ti exceptionas they are passive coarrants. th oxidising environment, feloniz is oxidised to furris oxides yellow rust . A And water In presence of comited orward, black huse , Featou and are exposed to a compsive environment. 201145 namonic series is a list of metal and allows in order of their tendency to undergo corrosion. · Two metals differ in electrode potentials. The metal with lower potential becomes anode . the other cathods . anode emdergoes ordation . cathods + unaffected.

· driving force + difference in electrode potential Odifference in potential both A . C larger PD - higher the rate of galvanic corrosion. When PD more, Free energy decrease is higher - corrosion rate 4. b differential Aeronin corresion with o use of diminitial metals) should be avoided on ature of corrosion product. part of metal exposed to different concentrations of air, part of metal exposed to lower conc of 02 becomes anodic -> corrosion anode: M + M+h+net catnode: 2420+02+4e-> 40Hcr. As common product acts like a protective film of it is insoluble, stable, uniform a non-porous prevents durther corrosion.

Pron, 2n, Mg do not form layer. It product is soluble,

Unstable, nonuniform and porous - corrosion - unabated. swatertine correspon differential aeration when conduction medium is @ ratio of anode area to cathode area. when small A - big c - corrosion more intensive & faster. - pitting corrosion e from anode are rapidly consumed by hydragen overvottage · localised accelerated corrosion Consumed .

Shydragen overvoltage .

Tow overvoltage of liberation of gas more - comption more as, cathodic reaction is fast. comparatively unaffected. very destructive characterised by small anomo area carge cathodic area. CASEI + 011 or dust orinnetal the demand for e from cathodi is high. Anode goes under accelerated comosion to be protechine film - Preling of tin coat on in CASE 2 - break down of protechine film - Preling of tin coat on in of metal also slows down ... @ Temperature. rate 1 with t in temp for redon reaction. rate, conductince of medium increase in solubility of product all increase, polarisation effects decreases, enternal stress or regidual stress due to mechanical enternal stress or regidual stress.

due to stress clack is initiated metals under stress are at breakdown of protective film

However, if correction is due to dissolved gases like

02 10021 etc - nate decreases with inc intemp - ) as

solubility of gas decreases

Oph nigher energy evis. .. move reachive. shaked part ranode canditions · stress - tennie - causes breakdown. At lowph, rate 1 as conc of Ht is high and increase ·specific corrosive emironment. rate of cathodic reaction corrosion product more Brass + amononiacal soin or amononia vapours soluble in acidic medium. At undergoes fast Steel + NaoH and chloride ions HAZHA MASAM B polarisation of the pola mare all rection MAN 486" - 201 4 HZ ZCHOIM + OZH + 60 NAM etc ... ions get conc in anode and decrease tendency of metal to undergo corrosion. hate faus accumulation of THE THOUGHT ON THE THE