

文 獻 紹 介

BRITISH CORROSION JOURNAL

VOL 8/1973/No 1/JANUARY (1973)

- 7 Ohmic potential drop in cathodic protection of buried structures: Evaluation of some measuring methods
B. Wallén and B. Linder
- 15 Arc and flame sprayed aluminium and zinc coatings on mild steel: Bond strength, surface roughness, structure and hardness
E. Bardal, P. Molde and T.G. Eggen
- 20 Influence of pollution on the corrosion of copper alloys in flowing salt water
L. Giuliani and G. Bombara
- 25 Inhibitory action of acrylonitrile on the corrosion of zinc in sea water
E. D. Mor and Anna Maria Beccaria
- 28 Determination of corrosion and inhibition of mild steel in HNO₃ by the thermometric (Mylius) technique
B. Sanyal and (Mrs) Kumkum Srivastava
- 33 Interfacial corrosion of brazed stainless steel joints in domestic tap water
R. A. Jarman, J. W. Myles and C. J. L. Booker
- 38 Microbial corrosion hazard in fuel storage tanks in the presence of corrosion inhibitors
L. Schön and P. Atterby
- 41 Corrosion of mild steel by ferrous sulphide
R. A. King and D. S. Wakerley

VOL 8/1973/No 2/MARCH (1973)

- 57 Role of corrosion and stresses in the cracking of mild steel in nitrate solutions
J. Flis
- 62 Stress corrosion cracking of mild steel in a phosphate solution
W. R. Middleton
- 66 Electrochemical behaviour of iron-nickel-chromium alloys in phosphoric acid solutions containing added impurities
A. C. Hart
- 71 Corrosion behaviour of steel in stagnant salt solutions
Venice K. Gouda and S. M. Sayed
- 76 Corrosion behaviour of lead in salt solutions I. Uncoupled lead electrodes
A. A. Abdul Azim, Venice K. Gouda, Laila A. Shalaby and Safa E. Afify
- 81 Corrosion behaviour of lead in salt solutions II. Lead-steel couple
Venice K. Gouda, Laila A. Shalaby and A. A. Abdul Azim
- 86 Microbiological corrosion of tanks in long-term storage of gas oil, II. Further bacterial studies and use of borax as a biocide
G. A. H. Roberts
- 89 Corrosion of mild steel in cultures of sulphate-reducing bacteria: Effect of changing the soluble iron concentration during growth
R. A. King, J. D. A. Miller and D. S. Wakerley

VOL 8/1973/No 3/MAY (1973)

- 98 Royal Society of Arts Chester Beatty Lecture 'Metals and Coins'
- 100 Materials Preservation Group Symposium
- 102 Industrial News
- 106 Comparative study of dezincification tests
Kate Nielsen and E. Rislund
- 117 Effects of quenching and tempering upon the stress corrosion cracking of ferritic steels
R. N. Parkins, P. W. Slattery, W. R. Middleton and M. J. Humphries
- 124 Initiation of stress corrosion cracks in a low alloy steel
J. G. Parker
- 128 Corniform corrosion of mild steel exposed to acid and humid environments
G. V. G. Hill
- 132 Protective film formation on ferrous metals in semicontinuous cultures of nitrate-reducing bacteria
S. A. Ashton, R. A. King and J. D. A. Miller
- 137 Corrosion of mild steel by iron sulphides
R. A. King, J. D. A. Miller and J. S. Smith

CORROSION SCIENCE

AN INTERNATIONAL JOURNAL OF THE SCIENCE AND PRACTICE
OF CORROSION AND PROTECTION

VOLUME 13, No. 1

JANUARY 1973

- Z. SZKLARSKA-SMIALOWSKA and M. KAMINSKI; Effect of various substituents in thiophene on the inhibitor efficiency1
- HANS-JOACHIM RATZER-SCHEIBE und HEINZ GERHARD FELLER: Der Einfluß der spezifischen Adsorption von Halogenidionen auf das Elektrochemische Verhalten der Nickel Elektrode.....11
- CARL WAGNER: The formation of thin oxide films on metals23
- Technical Note**
- T. K. Ross and A. F. ASPIN: The water-side corrosion of diesel engines53
- Short Communications**
- DILIP DESHMUKH and K. S. G. DOSS: The kinetics of potential build up in transpassive potential oscillations.....63
- J. R. DUNCAN, D. J. SPEDDING and E. E. WHEELER: Discrete areas of SO₂ adsorption from the atmosphere onto iron69

VOLUME 13, No. 2

FEBRUARY 1973

- MARCEL CAILLET, ANNICK NOULHIANE et JEAN BESSON: Comportement des revetements de carbonitrure de titane en atmosphere oxydante—Premiere partie action de l'oxygene77
- IRENE GUILLAUME, JANE GRIMAUDEAU, GABRIEL VALENSI et JEAN BRISOU: Facteurs d'immunité et de corrosion du cuivre dans un milieu marin bacterien85

IRENE GUILLAUME, JANE GRIMAUDEAU et GABRIEL VALENSI: Principaux facteurs d'immunité et de corrosion du nickel dans un milieu bactérien	97
R. K. WILO: Oxidation of nimonick 80A at 800°C in low oxygen pressures	105
P. L. SURMAN: The oxidation of iron at controlled oxygen partial pressures and I. Hydrogen water vapour	115
A. RAHMEL: Kinetic conditions for the simultaneous formation of oxide and sulphide in reactions of iron with gases containing sulphur and oxygen or their compounds.....	127

VOLUME 13, No. 3

MARCH 1973

E. M. KHAIRY and N. A. DARWISH: Studies on copper-semiconducting layer-electrolyte systems-I. Electrode potentials of copper and electrodeposited copper sulphide in S^{2-} and Cu^{2+} media	143
E. M. KHAIRY and N. A. DARWISH: Studies on copper-semiconducting layer-electrolyte systems-II. Galvanostatic anodic polarization of $Cu/Cu_2S/S^{2-}$ applying stationary and rectangular pulse techniques.....	149
G. BIANCHI, F. MAZZA and S. TORCHIO: Stress-corrosion cracking of austenitic stainless steel in hydrochloric acid media at room temperature	163
D. R. GABE: Electropolishing of mild steel in phosphoric and perchloric acid containing electrolytes	
MADHAV DATTA and DIETER LANDOLT: Stoichiometry of anodic nickel dissolution in NaCl and $NaClO_3$ under active and transpassive conditions.....	175
A. J. BROCK and M. J. PRYOR: The kinetics of the oxidation of the oxidation of aluminum-copper alloys in oxygen at high temperature	189

Short Communications

K. HASHIMOTO and T. MISAWA: The solubility of γ -FeOOH in perchloric acid at 25°C.....	229
D. MOSEDALE: A loaded helix as a corrosion test specimen	233

VOLUME 13, No. 4

APRIL 1973

AASMUND BROLI and HANS HOLTAN: Use of potentiokinetic methods for the determination of characteristic potentials for pitting corrosion of aluminium in a deaerated solution of 3% NaCl	237
D. P. WHITTLE, S. K. VERMA and J. STRINGER: Effect of chromium content on the sulphidation behaviour of Co-Cr alloys in H_2/H_2S mixtures ($P_{S_2}=15$ torr).....	224
DGBY D. MACDONALD and P. BUTLER: The thermodynamics of the aluminium-water system at elevated temperatures	259
SHIRO HARUYAMA and TOORU: Changes in the conductance of passivated iron thin films during galvanostatic cathodic reduction	275
H. C. ALBAYA, O. A. COBO and J. B. BESSONE: Some consideration in determining corrosion rates from linear polarization measurements	287
J. M. POPPLEWELL, R. J. HART and J. A. FORD: The effect of iron on the corrosion characteristics of 90-10 cupro nickel in quiescent 3.4% NaCl solution	295

Short Communication

H. E. TOWNSEND, JR: The importance of heat capacity in the construction of potential pH diagrams at elevated temperature	311
--	-----

VOLUME 13, No. 5

MAY 1973

C. D. THOMPSON and N. HACKERMAN: Effect of nitriles on the polarization of iron in 1.0 N HCl.....	317
R. HALES, A. C. HILL and R. K. WILD: The oxidation of nickel at reduced pressures.....	325
A. CERQUETTI and F. MAZZA: Electrochemical behaviour and stress-corrosion cracking of titanium in	

alcoholic solutions337

J. C. REEVE and G. BECH-NIELSEN: The Stern-Geary method. Basic difficulties and limitations and a simple extension providing improved reliability351

R. TUNOLD and A. BROLI: Anodic and cathodic behaviour of tin in acidic sulphate solutions361

G. KAR, T. W. HEALY and D. W. FUERSTENAU: Effects of alkyl amine surfactants on the corrosion of a rotating copper cylinder375

R. M. LATANISION, N. H. MACMILLAN and R. G. LYE: On the surface physics of metal electrodes387

S. HARUYAMA and S. ASAWA: Mechano-electrochemical dissolution of copper at reversible electrode potential.....395

VOLUME 13, No. 6

JUNE 1973

R. D. ARMSTRONG, R. E. FIRMAN and H. R. THIRSK: Ring-disc studies of titanium-palladium alloy corrosion409

A. GIRAudeau, P. LEMOINE and M. GROSS: Electrochemical oxidation of rhenium.....421

A. RAHMEL und J. A. GONZALEZ: Einfluss einer Voroxydation auf die Geschwindigkeit der Schwefelung von Eisen432

F. H. STOTT, D. S. LIN and G. C. WOOD: The structure and mechanism of formation of the glaze oxide layers produced on nickel-based alloys during wear at high temperatures449

GO OKAMOTO: Passive film of 18-8 stainless steel, structure and its function471

Short Communications

L. H. LITTLE: Adsorption of thioglycolic acid corrosion inhibitor on copper491

D. L. CARPENTER and A. C. RAY: The effect of metallurgical pretreatment on the kinetics of oxidation of iron at 700°C in pure gaseous oxygen495

VOLUME 13, No. 7

JULY 1973

D. GEANA, A. A. EL MILIGY und W. J. LORENZ: Zur anodischen Auflösung von Reineisen im Bereich zwischen aktivem und passivem Verhalten.....505

J. WOLSTENHOLHE: Electrochemical methods of assessing the corrosion of painted metals-a review521

G. M. BULMAN and A. C. TSEUNG: An ellipsometric study of passive film growth on stainless steel531

L. A. SHALABY and H. ABBAS: The behaviour of zinc and zinc-silver alloys in the presence of some inhibitors545

J. FRANCO and N. K. PATEL: Electronic property of photosensitive film on copper in solutions of iodine in chloroform553

M. KAMINSKI and Z. SZKLARSKA-SMIALOWSKA: Adsorption of thiophene derivatives on steel in sulphuric acid solutions557

VOLUME 13, No. 8

AUGUST 1973

C. R. CPOWE and S. G. FISHMAN: The effect of shock deformation on the anodic polarization behavior of polycrystalline nickel in 1N sulphuric acid.....569

J. L. CROLET et J. M. DEFRAVOUX: Calcul du temps d'incubation de la corrosion crevassante des aciers inoxydables575

YOSHIIHARU MATSUDA, KENJI KUSAKABE and HIDEO TAMURA: Electrochemical characteristics of iron in acidic solutions containing some organic sulphur compounds.....587

J. M. POPPLEWELL: The effect of iron on the stress corrosion resistance of 90/10 cupro-nickel in ammoniacal environment.....593

F. MANSFELD and E. P. PARRY: Galvanic corrosion of bare and coated Al alloys coupled to stainless steel

304 or Ti-6Al-4V	605
Technical Note	
J. BILLINGHAM, J. LAURIDSEN and R. E. LAWN Effect of heat treatment variations on hot-salt corrosion resistance of nickel base superalloys.....	623
Short Communication	
D. R. HOLMES Oxidation of Ni-20Cr alloy and stainless steel in presence of chlorides	627

Corrosion

Vol. 29, No. 1

January, 1973

Investigation of Stress Corrosion Cracking Susceptibility of Fe-Ni-Cr Alloys in Nuclear Reactor Water Environments	
W. L. Clarke and G. M. Gordon	1
Inhibition of Corrosion Fatigue in 7075 Aluminum Alloys	
R. E. Stoltz and R. M. Pelloux.....	13
Composition of Anolyte Within Pit Anode of Austenitic Stainless Steels in Chloride Solution	
T. Suzuki, M. Yamabe, and Y. Kitamura.....	18
Lattice Dilatation and Hydrogen Embrittlement Cracking	
B. C. Syrett	23
Cathodic Protection to Prevent Crevice Corrosion of Stainless Steels in Halide Media	
J. F. Bates.....	28
Temperature as a Pitting Criterion	
R. J. Brigham and E. W. Tozer	33
Action of Carbon in Stress Corrosion Cracking of Mild Steel in Nitrate Solutions	
J. Flis.....	37

Vol. 29, No. 2

February, 1973

Mechanism of Stress Corrosion Cracking of Titanium-Aluminum Alloys in Methanol-HCl Solutions	
C. J. McMahon, Jr. and D. J. Truax	47
Technical Note: Galvanic Interaction Between Active and Passive Titanium	
Florian Mansfeld	56
Passivity of Zirconium in Sulfuric Acid Solutions-Effect of Cathodic Pretreatment	
K. Elayaperumal, S. S. Chouthai, and J. Balachandra	56
Technical Note: Further Observations on the Electrochemical Behavior of Ti-Ni Alloys in Acidic Chloride Solutions	
A. J. Sedriks.....	64
Tube Electrodes for Stress Corrosion Cracking and Hydrogen Permeation Studies in High Temperature Water	
R. L. Jones	66
An Electrochemical Testing Method for Stress Corrosion Cracking by Separating Crack Anode from Cathode	
Tsuguo Suzuki, Minoru Yamabe, and Yoshiharu Kitamura.....	70
Corrosion of Metals by Liquid Bismuth-Tellurium Solutions	
W. R. Kanne, Jr.	75

Vol. 29, No. 3

March, 1973

Science and Technology in the Service of Society

Norman Hackerman.....85

The Effect of Exposed Nonmetallic Inclusions on Corrosion Resistance of Type 304 Stainless Steel in a Simulated Pressurized Water Reactor Environment

Fred F. Lyle, Jr.86

Role of the Alloying Elements at the Steel/Rust Interface

R. Bruno, A. Tamba, and G. Bombara.....95

On the Growth of Corrosion Cracks

G.P. Cherepanov, L.V. Ershov, and G.G. Kuzmin.....100

Technical Note: Benzotriazole as Corrosion Inhibitor for Copper

II. Acid NaCl Solutions

Florian Mansfeld and Tennyson Smith105

Technical Note: Effect of High Dislocation Density on Stress Corrosion Cracking and Hydrogen Embrittlement of Type 304L Stainless Steel

M.R. Louthan, Jr., J.A. Donovan, and D.E. Rawl, Jr.108

Cracking of Ti-6Al-4V in Methanol Solutions Containing Sulfates

E.G. Haney and Paul Fugassi112

Fluoride Salt Corrosion and Mass Transfer in High Temperature Dynamic Systems

J.W. Koger.....115

Vol. 29, No. 4

April, 1973

Electrochemical Measurements of Corrosion Processes in a Boiling Water Nuclear Reactor

R.L. Cowan and A.I. Kaznoff.....123

Potter-Mann and Bloom Iron Oxide Films Grown on Mild Steel in 280 C 5N NaOH: Their Significance in Pitting

R.L. Jones133

The Effect of Organic Lewis Bases on the SCC of AISI 4340 Steel Foil in Aqueous Acid Solutions

Paul Fugassi and E.G. Haney140

Some Effects of ClO₄ Ions on the Stability of Anodic Films Formed on Mild Steel

James P. Hoare and Kao-Wen Mao.....143

Technical Note: Influence of Cold Work on the Stress Corrosion Susceptibility of Ti-13V-11Cr-3Al

J.W. Munford and H.J. Rack146

Corrosion in Dilute Acids.

Part 1. A Modified Linear Polarization Technique

A.C. Makrides148

Technical Note: Stress Corrosion Cracking of Aged U-4.5 Wt% Nb

James M. Macki and Robert L. Kochen.....153

Stress Corrosion Cracking of Zircaloy-2 in Neutral Aqueous Chloride Solutions at 25C

B. Cox.....157

Vol. 29, No. 5

May, 1973

Predicting the Atmospheric Corrosion Behavior of Steel in an Industrial Environment

R.A. Legault, S. Mori, and H.P. Leckie169

Corrosion in Dilute Acids Part II. Mild Steel in Dilute Phosphoric Acid Containing a Food Additive

A. C. Makrides	180
Corrosion Inhibition of Iron and Copper in Chloride Solutions by Benzotriazole	
Robert J. Chin, Dan Altura, and Ken Nobe	185
Corrosion Behavior of Titanium in HCl	
N. T. Thomas and Ken Nobe.....	188
Solid Cadmium Cracking of Titanium Alloys	
D. A. Meyn.....	192
A Quantitative Model of Hydrogen Induced Grain Boundary Cracking	
H. P. van Leeuwen	197
A Test Procedure to Evaluate the Relative Susceptibility of Materials to Stress Corrosion Cracking	
D. L. Dull and L. Raymond	205

Vol. 29, No. 6

June, 1973

An Electrochemical Evaluation of 1100, 5052, and 6063 Aluminum Alloys for Desalination	
R. A. Bonewitz	215
Corrosion in Dilute Acids Part III. Corrosion Kinetics and Effect of Cold Work	
A. C. Makrides and F. Cocks	223
The Oxidation of Iron as Studied by Conversion Electron Mössbauer Spectroscopy	
G. W. Simmons, E. Kellerman, and H. Leidheiser, Jr.	227
The Mini Potentiostat: A Versatile Power Source for Electrochemical Studies	
N. D. Greene, G. A. Moebus, and M. H. Baldwin.....	234
Selective Corrosion of Stressed AISI 304 L-Type Steel in a 5N H ₂ SO ₄ -0.1N NaCl Environment	
Antero Honkasalo	237
Hydrogen Embrittlement and Stress Corrosion Cracking in Ti-Al Binary Alloys	
D. A. Mauney, E. A. Starke, Jr., and R. F. Hochman.....	241
On the Shape of Some Polarization Curves in the Vicinity of the Corrosion Potential	
G. Palombarini, L. Felloni, and G. P. Cammarota.....	245
Role of Stress in the Stress Corrosion Cracking of a Mg-Al Alloy	
W. R. Wearmouth, G. P. Dean, and R. N. Parkins	251

Vol. 29, No. 7

July, 1973

Fractography of Stress Corrosion in Ti-8Al Tested in Fatigue	
R. J. H. Wanhill.....	261
Stress Corrosion of Ferritic and Martensitic Stainless Steels in Saline Solutions	
M. F. McGuire, A. R. Roiano, and R. F. Hehemann	268
The Range of Validity of the Linear Polarization Method for Measurement of Corrosion Rates	
Rodney L. LeRoy	272
Galvanic Corrosion of Al Alloys Coupled to Coated PH 13-8Mo Stainless Steel	
Florian Mansfeld	276
Detection of Surface Contamination by Corrosion Printing	
Robert J. Picard and Norbert D. Greene	282
Advances in Technology of Corrosion Resistant Silicate Mortars	
G. W. Read, Jr. and F. M. Veater.....	285
Benzotriazole as a Corrosion Inhibitor for Immersed Copper	
R. Walker	290

Vol. 29, No. 8

August, 1973

Influence of Preloading on the Sustained Load Cracking Behavior of Maraging Steels in Hydrogen
 Otakar Jonas299

On the Theory of Crack Growth Due to Hydrogen Embrittlement
 Genady P. Cherepanov.....305

Stress Corrosion Cracking Behavior of ASTM A517 Grade F Steel in Liquid Ammonia Environments
 B. E. Wilde and D. C. Deegan310

Fractography of Stress Corrosion Cracks in Aluminum Alloy 7075
 W. J. Helfrich.....316

Effect of Chloride ion Concentration on the Anodic Dissolution Behavior of Nickel
 M. B. Ives and M. Zamin319

Stress Corrosion of α -Brass in an Acid Sulfate Solution
 H. W. Pickering and P. J. Byrne325

Pitting Potential Measurements by Means of the Static Potential Band Method
 A. A. Seys and A. A. Van Haute.....329

Vol. 29, No. 9

September, 1973

The Role of Carbon, Nitrogen, and Heat Treatment in the Dissolution of Iron-Chromium Alloys in Acids
 Michael A. Streicher337

Twenty-Year Inhibition of Corrosion by the Pertechnetate Ion
 G. H. Cartledge.....361

Discussion of A Correlation of Phase Change with Stress Corrosion Fracture in Alpha-Brass
 Desmond Tromans.....363

Exfoliation Corrosion of 7075 Aluminum Die Forgings
 James V. Rinnovatore, Karl F. Lukens, and John D. Corrie.....364

防 蝕 技 術

第22卷 第1号(1973年)

解 説

細菌による金属の腐食下平 三郎(2)

報 文

有機酸溶液中におけるステンレス鋼の腐食に関する研究
 (第6報) 飽和モノカルボン酸中の Fe-Cr 合金について (その1) ...崎山和孝・室木 但・吉田直喜... (10)

ステンレス鋼の孔食発生に及ぼす不働態化処理電位の効果斎藤 浩・橋 孝二・岡本 剛... (18)

資 料

塩化ナトリウム溶液中における高張力マルテンサイステンレス鋼の割れの機構.....B. E. Wilde... (23)

第22卷 第2号

報 文

港湾における鋼腐材食の研究
 (第7報) 閘, 水門施設の腐食傾向善 一章... (55)

還元性硫酸水溶液中でのステンレス鋼の防食大久保勝夫・三木 正義... (64)

資 料

腐食性環境に使用される鉄筋コンクリート構造物の設計R. C. Robinson... (71)

第22巻 第3号

報 文

サンドブラスト鋼板のエキソエレクトロン現象と

塗膜の防錆効果 玉井 康勝・佐藤 靖・百瀬義広・植村勝也… (99)

各種金属材料および防錆被覆の大気腐食に関する研究

(第9報) 大気腐食量の実測値と計算値の考察 陸上鉄骨構造物防食研究会… (106)

資 料

ニッケル単語結晶面の不働態化 R. M. Latanision & H. Opperhauser… (114)

第22巻 第4号

報 文

ポリチオ酸応力腐食割れの電気化学的研究 松 島 巖… (141)

人工汚染空気による耐候促進試験の検討

(第3報) 亜硫酸ガスによる促進試験と自然暴露との類似性 (耐候性銅) 山崎正八郎・横井 康夫… (148)

資 料

燃焼ガス雰囲気下における各種混合塩の

腐食性について P. D. Miller, H. H. Krause, J. Zupan & W. K. Boyd… (153)

貨貸用製品タンクのコールタールエポキシライニング法 NACE Standard RP-03-72… (159)

第22巻 第5号

解 説

深埋設陽極式電気防食装置について 星野 九平… (175)

報 文

鉄電解法による主復水器冷却管の保護方法 中川明人・浜崎俊晴・谷川広成・植田健二… (182)

技術ノート

腐食研究における演算増幅器の応用

(その1) 演算増幅器を用いた定電流装置の試作 中内博二・海野武人・長沼良宗… (192)

資 料

防食対策の経済的評価のための直接計算法 NACE Standard RP-02-72… (197)

第22巻 第6号

報 文

海水における二、三のオーステナイトステンレス鋼の応力腐食割れ

——その試験法について—— 尾倉毎範・西田 修… (221)

プロペラの電気防食に関する研究 古井 徹・植田健二… (228)

資 料

都市ごみ焼印炉における高温腐食の機構 P. D. Miller, H. H. Krause, D. A. K. Boy… (236)

塗装または塗り替え前の鋼材および高硬度面のウォーターブラスト処理

——推薦仕様—— NACE Standard RP-01-72… (245)

防 錆 管 理

第17巻 第1号

<大気汚染と金属腐食>シリーズ

愛知県の大気汚染—いおう酸化物の現況と傾向 豊島 一男… (9)

欧米の長大橋の防錆防食の実情 大西 正次… (19)

新しい防錆塗料用顔料堀 正... (28)

<連載> 金属清浄 (第7回)竹内 節三... (31)

第17卷 第2号

<大気汚染と金属腐食シリーズ>(2)

大都市とその周辺地域における大気汚染の現状と将来氷見 康二... (13)

欧米の長大橋の防錆防蝕の実情 (完)大西 正次... (31)

第17卷 第3号

<大気汚染と金属腐食シリーズ>(3)

大都市とその周辺地域における大気汚染の現状と将来

——阪神地区—— 大阪府公害監視センター 熊沢 安正... (11)

<解説> 不凍液に関する内外諸規格の概要について

——特に浸漬腐食試験の問題点—— 附属研究所 堀 正... (21)

<連載> 金属清浄 (第8回)技術士 竹内 節三... (26)

第17卷 第4号

<大気汚染と金属腐食シリーズ>(4)

大気暴露試験の重要性と各国の現状西田 広三... (11)

凝集処理による油水分離について丸石 功... (17)

不凍液に関する内外諸規格の概要について堀 正... (23)

第17卷 第5号

化学処理法による油水分離について大阪工業技術試験所/萩原一芳... (13)

“酸化性さび止油” JIS 原案答申さる事務局... (19)

第17卷 第6号

<大気汚染と金属腐食シリーズ> 5

屋外鉄構造物に期待される防食塗装について日本ペイント/福島 稔... (17)

ラジエーター用防食剤の推奨品中間検査について附属研究所... (23)

<連載> 金属清浄 (最終回)技術士/竹内節三... (26)

第17卷 第7号

<固体規格> “内燃機関冷却装置用防食剤” 改正される事務局... (7)

欧州粉体塗装視察の印象田代屋塗料/蜂谷久雄... (15)

油中の水による腐食と防食方法正和工業/水谷増美他... (20)

廃塗料から溶剤回収への道大信ペイント/大森豊吉... (27)

第17卷 第8号

屋外構造物の大気汚染による響影三菱重工業/栄 幸雄... (11)

熱硬化性アクリル粉体塗料三井東圧化学/鳥居芳典, 他... (17)

市販酸化性防錆油剤の性能比較試験附属研究所/堀 正, 他... (22)

新しいニッケルクロムメッキ国際規格技術士/市川 清... (25)

第17卷 第9号

<特集> 水溶性さび止め塗料

水溶性樹脂塗料の基礎と将来の展望職業訓練大学校/植木憲二... (7)

水溶性さび止塗料のいろいろ

- ☆トア アクマリン 東亜ペイント / 萱島 洋... (10)
- ☆カシュー ウォーターコート カシュー / 久永幸隆... (13)
- ☆ラスカット・エマトロン 大日本塗料 / 村山文雄ほか... (16)
- ☆エバゾール 中国塗料 / 内田麒一郎... (21)
- ☆アクア #8,000 日本油脂 / 小野和美... (24)
- ☆アルクァシリーズ カナエ塗料 / 重松 満... (29)
- ☆サンパーク 日本ペイント / 大森 洋... (34)

第17巻 第10号

- 表面被覆の腐食事例 住友化学工業 / 大久保勝夫... (11)
- 日本の鉄 100年間で粗鋼8億3千万トン 出版局... (18)
- 重金属含有スラッジの無公害処理 愛工試 / 深谷英世・坂都隆夫... (19)
- 市販不凍液の性能比較試験 附属研究所 / 堀 正ほか... (25)