

物料科学

Material Science

物料科学定义 **Material Science Definition**

加工性能

Machinability

强度

Strength

抗腐蚀及耐用

Corrosion & resistance durability

金属特性

Special metallic features

抗敏感及环境保护

Allergic, re-cycling & environmental protection

化学元素

Chemical element

元素的原子序数

Atom of Elements

原子及固体物质

Atom and solid material

原子的组成、大小、体积和单位图表

The size, mass, charge of an atom, and its particles (Proton, Neutron and Electron)

原子的组织图

Atom Constitutes

周期表

Periodic Table

原子键结

Atom Bonding

金属与合金 **Metal and Alloy**

铁及非铁金属

Ferrous & Non Ferrous Metal

金属的特性

Features of Metal

晶体结构 **Crystal Pattern**

晶体结构，定向格子及单位晶格

Crystal structure, Space lattice & Unit cell

X 线结晶分析法

X – ray crystal analysis method

金属结晶格子 **Metal space lattice**

格子常数 **Lattice constant**

米勒指数 **Mill's Index**

金相及相律 **Metal Phase and Phase Rule**

固熔体 **Solid solution**

置换型固熔体 **Substitutional type solid solution**

插入型固熔体 **Interstitial solid solution**

金属间化物 Intermetallic compound

金属变态

Transformation

变态点

Transformation Point

磁性变态

Magnetic Transformation

同素变态

Allotropic Transformation

合金平衡状态

Thermal Equilibrium

相律

Phase Rule

自由度

Degree of freedom

临界温度

Critical temperature

共晶

Eutectic

包晶温度 Peritectic Temperature

包晶反应 Peritectic Reaction

包晶合金 Peritectic Alloy

亚共晶体 Hypoeutectic Alloy

过共晶体 Hyper-ectectic Alloy

金属的相融、相融温度、晶体反应及合金在共晶合金、固熔体共晶合金及偏晶反应的比较

Equilibrium Comparison

金属塑性 Plastic Deformation

滑动面 Slip Plan

畸变 Distortion

硬化 Work Hardening

退火 Annealing

回复柔软 Crystal Recovery

再结晶 Recrystallization

金属材料的性能及试验

Properties & testing of metal

化学性能

Chemical Properties

物理性能

Physical Properties

颜色

Colour

磁性

Magnetisum

比电阻

Specific resistivity & specific resistance

比重

Specific gravity & specific density

比热

Specific Heat

热膨胀系数

Coefficient of thermal expansion

导热度

Heat conductivity

机械性能 Mechanical properties

屈服强度(降伏强度) (Yield strength)

弹性限度、阳氏弹性系数及屈服点

elastic limit, Yeung's module of elasticity to yield point

伸长度

Elongation

断面缩率

Reduction of area

金属材料的试验方法

The Method of Metal inspection

不破坏检验

Non – destructive inspections

渗透探伤法

Penetrate inspection

磁粉探伤法

Magnetic particle inspection

放射线探伤法

Radiographic inspection

超声波探伤法

Ultrasonic inspection

显微观察法

Microscopic inspection

破坏的检验

Destructive Inspection

冲击测试

Impact Test

疲劳测试

Fatigue Test

潜变测试 Creep Test

潜变强度

Creeps Strength

第壹潜变期

Primary Creep

第二潜变期

Secondary Creep

第三潜变期

Tertiary Creep

主要金属元素之物理性质

Physical properties of major Metal Elements

工业标准及规格 - 铁及非铁金属

Industrial Standard – Ferrous & Non – ferrous Metal

磁力 Magnetic

简介 General

软磁 Soft Magnetic

硬磁 Hard Magnetic

磁场 Magnetic Field

磁性感应 Magnetic Induction

透磁度 Magnetic Permeability

磁化率 Magnetic Susceptibility (X_m)

磁力(Magnetic Force)及磁场(Magnetic Field)是因物料里的电子(Electron)活动而产生
抗磁体、顺磁体、铁磁体、反铁磁体及亚铁磁体

Diamagnetism, Paramagnetic, Ferromagnetism, Antiferromagnetism & Ferrimagnetism

抗磁体 Diamagnetism

磁偶极子 Dipole

负磁力效应 Negative effect

顺磁体 Paramagnetic

正磁化率 Positive magnetic susceptibility

铁磁体 Ferromagnetism

转变元素 Transition element

交换能量 Positive energy exchange

外价电子 Outer valence electrons

化学结合 Chemical bond

自发上磁 Spontaneous magnetization

磁畴 Magnetic domain

相反旋转 Opposite spin

比较抗磁体、顺磁体及铁磁体

Comparison of Diamagnetism, Paramagnetic & Ferromagnetism

反铁磁体 Antiferromagnetism

亚铁磁体 Ferrimagnetism

磁矩 magnetic moment

净磁矩 Net magnetic moment

钢铁的主要成份

The major element of steel

钢铁用"碳"之含量来分类

Classification of Steel according to Carbon contents

铁相

Steel Phases

钢铁的名称

Name of steel

纯铁体

Ferrite

渗碳体

Cementite

奥氏体 Austenite

珠光体及共析钢

Pearlite & Eutectoid

奥氏体碳钢

Austenite Carbon Steel

单相金属

Single Phase Metal

共析变态

Eutectoid Transformation

珠光体 Pearlite

亚铁释体

Hypo-Eutectoid

初析纯铁体 Pro-eutectoid ferrite

过共析钢 Hyper-eutectoid

珠光体

Pearlite

粗珠光体 Coarse pearlite

中珠光体 Medium pearlite

幼珠光体 Fine pearlite

磁性变态点 Magnetic Transformation

钢铁的制造

Manufacturing of Steel

连续铸造法 Continuous casting process

电炉 Electric furnace

均热炉 Soaking pit

全静钢 Killed steel

半静钢 Semi-killed steel

沸腾钢(未净钢) Rimmed steel

钢铁生产流程 Steel Production Flow Chart

钢材的熔铸、锻造、挤压及延轧

The Casting, Forging, Extrusion, Rolling & Steel

熔铸 Casting

锻造 Forging

挤压 Extrusion

延轧 Rolling

冲剪 Drawing & stamping

特殊钢 Special Steel

简介

General

特殊钢以原素分类

Classification of Special Steel according to Element

特殊钢以用途来分类

Classification of Special Steel according to End Usage

易车(快削)不锈钢

Free Cutting Stainless Steel

含铅易车钢

Leaded Free Cutting Steel

含硫易车钢

Sulphuric Free Cutting Steel

硬化性能

Hardenability

钢的脆性

Brittleness of Steel

低温脆性 Cold brittleness

回火脆性 Temper brittleness

日工标准下的特殊钢材

Specail Steel according to JIS Standard

铬钢 - 日工标准 JIS G4104

Chrome steel to JIS G4104

铬钼钢钢材 - 日工标准 G4105 62

Chrome Molybdenum steel to JIS G4105

镍铬 - 日工标准 G4102 63

Chrome Nickel steel to JIS G4102

镍铬钼钢 - 日工标准 G4103 64

Nickel, Chrome & Molybdenum Steel to JIS G4103

高锰钢铸 - 日工标准

High manganese steel to JIS standard

片及板材

Chapter Four-Strip, Steel & Plate

冷辊低碳钢片(双单光片)(日工标准 JIS G3141) 73 - 95

Cold Rolled (Low carbon) Steel Strip (to JIS G 3141)

简介

General

美材试标准的冷辊低碳钢片

Cold Rolled Steel Strip American Standard – American Society for testing and materials (ASTM)

日工标准 JIS G3141 冷辊低碳钢片(双单光片)的编号浅释

Decoding of cold rolled(Low carbon)steel strip JIS G3141

材料的加工性能 Drawing ability

硬度 Hardness

表面处理 Surface finish

冷辊钢捆片及张片制作流程图表

Production flow chart cold rolled steel coil sheet

冷辊钢捆片及张片的电镀和印刷方法

Cold rolled steel coil & sheet electro-plating & painting method

冷辘(低碳)钢片的分类用、途、工业标准、品质、加热状态及硬度表

End usages, industrial standard, quality, condition and hardness of cold rolled steel strip

硬度及拉力 Hardness & Tensile strength test

拉伸测试(顺纹测试)

Elongation test

杯突测试(厚度: 0.4 公厘至 1.6 公厘, 准确至 0.1 公厘 3 个试片平均数)

Erichsen test (Thickness: 0.4mm to 1.6mm, figure round up to 0.1mm)

曲面(假曲率)

Camber

厚度及阔度公差 Tolerance on Thickness & Width

平坦度(阔度大于 500 公厘, 标准回火)

Flatness (width>500mm, temper: standard)

弯度 Camber

冷辘钢片储存与处理提示

General advice on handling & storage of cold rolled steel coil & sheet

防止生锈

Rust Protection

生锈速度表

Speed of rusting

焊接 Welding

气焊 Gas Welding

埋弧焊 Submerged-arc Welding

电阻焊 Resistance Welding

冷辘钢片(拉力: 30-32 公斤/平方米)在没有表面处理状态下的焊接状况

Spot welding conditions for bared (free from paint, oxides etc) Cold rolled mild steel sheets(T/S:30-32 Kgf/ μ m²)

时间效应(老化)及拉伸应变

Aging & Stretcher Strains

日工标准(JIS G3141)冷辘钢片化学成份

Chemical composition – cold rolled steel sheet to JIS G3141

冷辘钢片的"理论重量"计算方程式

Cold Rolled Steel Sheet – Theoretical mass

日工标准(JIS G3141)冷辘钢片重量列表

Mass of Cold-Rolled Steel Sheet to JIS G3141

冷辘钢片订货需知

Ordering of cold rolled steel strip/sheet

其它日工标准冷轧钢片(用途及编号)

JIS standard & application of other cold Rolled Special Steel

电镀锌钢片或电解钢片

Electro-galvanized Steel Sheet/Electrolytic Zinc Coated Steel Sheet

简介

General

电解/电镀锌大大增强钢片的防锈能力

Galvanic Action improving Weather & Corrosion Resistance of the Base Steel Sheet

上漆能力 Paint Adhesion

电镀锌钢片的焊接

Welding of Electro-galvanized steel sheet

点焊

Spot welding

滚焊

Seam welding

电镀锌(电解)钢片

Electro-galvanized Steel Sheet

生产流程

Production Flow Chart

常用的镀锌钢片(电解片)的基层金属、用途、日工标准、美材标准及一般厚度

Base metal, application, JIS & ASTM standard, and Normal thickness of galvanized steel sheet

锌镀层质量 Zinc Coating Mass

表面处理 Surface Treatment

冷轧钢片 Cold-Rolled Steel Sheet/Strip

热轧钢片 Hot-Rolled Sheet/Strip

电解冷轧钢片厚度公差

Thickness Tolerance of Electrolytic Cold-rolled sheet

热轧钢片厚度公差

Thickness Tolerance of Hot-rolled sheet

冷轧或热轧钢片阔度公差

Width Tolerance of Cold or Hot-rolled sheet

长度公差 Length Tolerance

理论质量 Theoretical Mass

锌镀层质量(两个相同锌镀层厚度)

Mass Calculation of coating (For equal coating)/MM

锌镀层质量(两个不同锌镀层厚度)

Mass Calculation of coating (For differential coating)/MM

镀锡薄铁片(白铁皮/马口铁) (日工标准 JIS G3303)

简介

General

镀锡薄铁片的构造

Construction of Electrolytic Tinplate

镀锡薄钢片(白铁皮/马日铁)制造过程

Production Process of Electrolytic Tinplate

锡层质量

Mass of Tin Coating (JIS G3303-1987)

两面均等锡层

Both Side Equally Coated Mass

两面不均等锡层

Both Side Different Thickness Coated Mass

级别、电镀方法、镀层质量及常用称号

Grade, Plating type, Designation of Coating Mass & Common Coating Mass

镀层质量标记

Markings & Designations of Differential Coatings

硬度 Hardness

单相轧压镀锡薄铁片(白铁皮/马口铁)

Single-Reduced Tinplate

双相辗压镀锡薄钢片(马口铁/白铁皮)

Dual-Reduction Tinplate

钢的种类 Type of Steel

表面处理 Surface Finish

常用尺寸 Commonly Used Size

电器用硅 [硅] 钢片 Electrical Steel Sheet

简介 General

软磁材料 Soft Magnetic Material

滞后回线 Narrow Hysteresis

矫顽磁力 Coercive Force

硬磁材料 Hard Magnetic Material

最大能量积 Maximum Energy Product

硅含量对电器用的低碳钢片的最大好处

The Advantage of Using Silicon low Carbon Steel

晶粒取向(Grain-Oriented)及非晶粒取向(Non-Oriented)

Grain Oriented & Non-Oriented

电器用硅 [硅] 钢片的最终用途及规格

End Usage and Designations of Electrical Steel Strip

电器用的硅 [硅] 钢片之分类

Classification of Silicon Steel Sheet for Electrical Use

电器用钢片的绝缘涂层

Performance of Surface Insulation of Electrical Steel Sheets

晶粒取向电器用硅钢片主要工业标准

International Standard – Grain-Oriented Electrical Steel Silicon Steel Sheet for Electrical Use

晶粒取向电器用硅钢片 Grain-Oriented Electrical Steel

晶粒取向，定取向芯钢片及高硼定取向芯钢片之磁力性能及夹层系数(日工标准及美材标准)

Magnetic Properties and Lamination Factor of SI-ORIENT-CORE& SI-ORIENT-CORE-HI B
Electrical Steel Strip (JIS and AISI Standard)

退火 Annealing

电器用钢片用家需自行应力退火原因

Annealing of the Electrical Steel Sheet

退火时注意事项 Annealing Precautionary

碳污染 Prevent Carbon Contamination

热力应先从工件边缘透入

Heat from the Laminated Stacks Edges

提防过份氧化

No Excessive Oxidation

应力退火温度

Stress-relieving Annealing Temperature

晶粒取向电器用硅 [硅] 钢片 - 高硼(HI-B)定取向芯钢片及定取向芯钢片之机械性能及夹层系数

Mechanical Properties and Lamination Factors of SI-ORIENT-CORE-HI-B and SI-ORIENT-CORE Grain Orient Electrical Steel Sheets

晶粒取向电器用硅 [硅] 钢片 - 高硼低硫(LS)定取向 钢片之磁力及电力性能

Magnetic and Electrical Properties of SI-ORIENT-CORE-HI-B-LS

晶粒取向电器用硅 [硅] 钢片 - 高硼低硫(LS) 定取向钢片之机械性能及夹层系数

Mechanical Properties and Lamination Factors of SI-ORIENT-CORE-HI-B-LS

晶粒取向电器用硅(硅)钢片-高硼(HI-B)定取向 芯钢片，定取向芯钢片及高硼低硫(LS)定取向芯钢片之厚度及阔度公差

Physical Tolerance of SI-ORIENT-CORE-HI-B, SI-ORIENT-CORE, & SI-CORE-HI-B-LS Grain Oriented Electrical Steel Sheets

晶粒取向电器用硅(硅)钢片 - 高硼(HI-B)定取向 芯钢片，定取向芯钢片及高硼低硫(LS)定取向芯钢片之标准尺寸及包装

Standard Forms and Size of SI-ORIENT-CORE-HI-B,SI-CORE, & SI-ORIENT-CORE-HI-B-LS Grain-

Oriented Electrical Steel Sheets

绝缘表面 Surface Insulation

非晶粒取向电力用钢片的电力、磁力、机械性能 及夹层系数

Lamination Factors of Electrical, Magnetic & Mechanical Non-Grain Oriented Electrical

电器及家电外壳用镀层冷镗 [低碳] 钢片

Coated (Low Carbon) Steel Sheets for Casing,Electricals & Home Appliances

镀铝硅钢片 Aluminized Silicon Alloy Steel Sheet

简介 General

镀铝硅合金钢片的特色

Feature of Aluminized Silicon Alloy Steel Sheet

用途

End Usages

抗化学品能力

Chemical Resistance

镀铝(硅)钢片 - 日工标准(JIS G3314)

Hot-aluminum-coated sheets and coils to JIS G 3314

镀铝(硅)钢片 - 美材试标准(ASTM A-463-77)35.7 JIS G3314 镀热浸铝片的机械性能

Mechanical Properties of JIS G 3314 Hot-Dip Aluminum-coated Sheets and Coils

公差 Size Tolerance

镀铝(硅)钢片及其它种类钢片的抗腐蚀性能比较

Comparison of various resistance of aluminized steel & other kinds of steel

镀铝(硅)钢片生产流程

Aluminum Steel Sheet, Production Flow Chart

焊接能力 Weldability

镀铝钢片的焊接状态(比较冷辘钢片)

Tips on welding of Aluminized sheet in comparasion with cold rolled steel strip

钢板

Steel Plate

钢板用途分类及各国钢板的工业标准包括日工标准及美材试标准

Type of steel Plate & Related JIS, ASTM and Other Major Industrial Standards

钢板生产流程

Production Flow Chart

钢板订货需知

Ordering of Steel Plate

不锈钢

Stainless Steel

不锈钢的定义 Definition of Stainless Steel

不锈钢之分类, 耐腐蚀性及耐热性

Classification, Corrosion Resistant & Heat Resistance of Stainless Steel

铁铬系不锈钢片

Chrome Stainless Steel

马氏体不锈钢

Martensite Stainless Steel

低碳马氏体不锈钢

Low Carbon Martensite Stainless Steel

含铁体不锈钢

Ferrite Stainless Steel

镍铬系不锈钢

Nickel Chrome Stainless Steel

释出硬化不锈钢

Precipitation Hardening Stainless Steel

铁锰铝不锈钢

Fe / Mn / Al / Stainless Steel

不锈钢的磁性

Magnetic Property & Stainless Steel

不锈钢箔、卷片、片及板之厚度分类

Classification of Foil, Strip, Sheet & Plate by Thickness

表面保护胶纸

Surface protection film

不锈钢片材常用代号

Designation of SUS Steel Special Use Stainless

表面处理 Surface finish

薄卷片及薄片(0.3 至 2.9mm 厚之片)机械性能

Mechanical Properties of Thin Stainless Steel(Thickness from 0.3mm to 2.9mm) – strip/sheet

不锈钢片机械性能(301, 304, 631, CSP)

Mechanical Properties of Spring use Stainless Steel

不锈钢 – 种类, 工业标准, 化学成份, 特点及 主要用途

Stainless Steel – Type, Industrial Standard, Chemical Composition, Characteristic & end usage of the most commonly used Stainless Steel

不锈钢薄片用途例

End Usage of Thinner Gauge

不锈钢片、板用途例

Examples of End Usages of Strip, Sheet & Plate

不锈钢应力退火卷片常用规格名词图解

General Specification of Tension Annealed Stainless Steel Strips

耐热不锈钢

Heat-Resistance Stainless Steel

镍铬系耐热不锈钢特性、化学成份、及操作温度

Heat-Resistance Stainless Steel

铬系耐热钢

Chrome Heat Resistance Steel

镍铬耐热钢

Ni - Cr Heat Resistance Steel

超耐热钢

Special Heat Resistance Steel

抗热超级合金

Heat Resistance Super Alloy

耐热不锈钢比重表

Specific Gravity of Heat – resistance steel plates and sheets stainless steel

不锈钢材及耐热钢材标准对照表

Stainless and Heat-Resisting Steels

发条片 Power Spring Strip

发条的分类及材料

Power Spring Strip Classification and Materials

上链发条 Wind-up Spring

倒后擦发条 Pull Back Power Spring

圆面("卜竹")发条 Convex Spring Strip

拉尺发条 Measure Tape

魔术手环 Magic Tape

魔术手环尺寸图 Drawing of Magic Tap

定型发条 Constant Torque Spring

定型发条及上炼发条的驱动力

Spring Force of Constant Torque Spring and Wing-up Spring

定型发条的形状及翻动过程

Shape and Spring Back of Constant Torque Spring

定型发条驱动力公式及代号

The Formula and Symbol of Constant Torque Spring

边缘处理 Edge Finish

硬度 Hardness

高碳钢化学成份及用途

High Carbon Tool Steel, Chemical Composition and Usage

每公斤发条的长度简易公式

The Length of 1 Kg of Spring Steel Strip

SK-5 & AISI-301 每公斤长的重量/公斤(阔 100-200 公厘) Weight per one meter long (kg)
(Width 100-200mm)

SK-5 & AISI-301 每公斤之长度(阔 100-200 公厘) Length per one kg (Width 100-200mm)

SK-5 & AISI-301 每公尺长的重量/公斤(阔 2.0-10 公厘)

Weight per one meter long (kg) (Width 2.0-10mm)

SK-5 & AISI-301 每公斤之长度(阔 2.0-10 公厘)

Length per one kg (Width 2.0-10mm)

高碳钢片 High Carbon Steel Strip

分类

Classification

用组织结构分类

Classification According to Grain Structure

用含碳量分类 - 即低碳钢、中碳钢及高碳钢

Classification According to Carbon Contains

弹簧用碳钢片

CarbonSteel Strip For Spring Use

冷轧状态 Cold Rolled Strip

回火状态 Annealed Strip

淬火及回火状态

Hardened & Tempered Strip/ Precision – Quenched Steel Strip

贝氏体钢片 Bainite Steel Strip

弹簧用碳钢片材之边缘处理 Edge Finished

淬火剂

Quenching Media

碳钢回火 Tempering

回火有低温回火及高温回火

Low & High Temperature Tempering

高温回火

High Temperature Tempering

退火 Annealing

完全退火 Full Annealing

扩散退火 Diffusion Annealing

低温退火 Low Temperature Annealing

中途退火 Process Annealing

球化退火 Spheroidizing Annealing

光辉退火 Bright Annealing

淬火 Quenching

时间淬火 Time Quenching
奥氏体回火 Austempering
马氏体淬火 Marquenching
高碳钢片用途 End Usage of High Carbon Steel Strip
冷轧高碳钢 - 日本工业标准
Cold-Rolled (Special Steel) Carbon Steel Strip to JIS G3311
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光线(低碳钢线), 火线(退火低碳钢线), 铅水线 (镀锌低碳钢线)及制造钉用低碳钢线之代号、公差及备注

Ordinary Low Carbon Steel Wire, Annealed Low Carbon Steel Wire, Galvanized low Carbon Steel Wire & Low Carbon Steel Wire for nail manufacturing - classification, Symbol of Grade, Tolerance and Remarks.

机械性能

Mechanical Properties

锌包层之重量, 铜硫酸盐试验之酸洗次数及测试用卷筒直径

Weight of Zinc-Coating, Number of Dippings in Cupric Sulphate Test and Diameters of Mandrel Used for Coiling Test

冷冲及冷锻用碳钢线枝

Carbon Steel Wire Rods for Cold Heading & Cold Forging (to JIS G3507)

级别, 代号及化学成份

Classification, Symbol of Grade and Chemical Composition

直径公差, 偏圆度及脱碳层的平均深度

Diameter Tolerance, Ovality and Average Decarburized Layer Depth

冷拉钢枝材

Cold Drawn Carbon Steel Shafting Bar

枝材之美工标准, 日工标准, 用途及化学成份

AIISI, JIS End Usage and Chemical Composition of Cold Drawn Carbon Steel Shafting Bar

冷拉钢板重量表

Cold Drawn Steel Bar Weight Table

高碳钢线枝

High Carbon Steel Wire Rod (to JIS G3506)

冷拉高碳钢线

Hard Drawn High Carbon Steel Wire

(to JIS G3521, ISO-84580-1&2)

化学成份分析表

Chemical Analysis of Wire Rod

线径、公差及机械性能(日本工业标准 G 3521)

Mechanical Properties (JIS G 3521)

琴线(日本标准 G3522)

Piano Wires (to G3522)

级别, 代号, 扭曲特性及可用之线材直径

Classes, symbols, twisting characteristic and applied Wire Diameters

直径, 公差及拉力强度

Diameter, Tolerance and Tensile Strength

裂纹之容许深度及脱碳层

Permissible depth of flaw and decarburized layer

常用的弹簧不锈钢线-编号, 特性, 表面处理及化学成份

StainlessSpring Wire – National Standard number, Charateristic, Surface finish & Chemical composition

弹簧不锈钢线, 线径及拉力列表

Stainless Spring Steel, Wire diameter and Tensile strength of Spring Wire

处理及表面状况

Finish & Surface

各种不锈钢线在不同处理拉力比较表

Tensile Strength of various kinds of Stainless Steel Wire under Different Finish

圆径及偏圆度之公差

Tolerance of Wire Diameters & Ovality

铬镍不锈钢及抗热钢弹簧线材 -

美国材验学会 ASTM A313 - 1987

Chromium - Nickel Stainless and Heat-resisting Steel Spring Wire - ASTM A313 - 1987

化学成份 Chemical Composition

机械性能 Mechanical Properties

305, 316, 321 及 347 之拉力表

Tensile Strength Requirements for Types 305, 316, 321 and 347

A1S1-302 贰级线材之拉力表

Tensile Strength of A1S1-302 Wire

日本工业标准 - 不锈钢的化学成份(先数字后字母排列)

JIS - Chemical Composition of Stainless Steel (in order of number & alphabet)

美国工业标准 - 不锈钢及防热钢材的化学成份

(先数字后字母排列)

AISI - Chemical Composition of Stainless Steel & Heat-Resistant Steel(in order of number & alphabet)

易车碳钢

Free Cutting Carbon Steels (to JIS G4804)

化学成份 Chemical composition

圆钢枝, 方钢枝及六角钢枝之形状及尺寸之公差

Tolerance on Shape and Dimensions for Round Steel Bar, Square Steel Bar, Hexagonal Steel Bar

易车(快削)不锈钢 Free Cutting Stainless Steel

易车(快削)不锈钢种类 Type of steel

易车(快削)不锈钢拉力表

Tensile Strength of Free Cutting Wires

枝/棒无芯磨公差表 (μ) ($\mu = 1/100 \text{ mm}$)

Rod/Bar Centreless Grind Tolerance

易车不锈钢及易车钢之不同尺寸及硬度比较

Hardness of Different Types & Size of Free Cutting Steel

扁线、半圆线及异形线

Flat Wire, Half Round Wire, Shaped Wire and Precision Shaped Fine Wire

加工方法

Manufacturing Method

应用材料

Material Used

特点

Characteristic

用途

End Usages

不锈钢扁线及半圆线常用材料

Commonly used materials for Stainless Flat Wire & Half Round Wire

扁线公差

Flat Wire Tolerance

方线公差

Square Wire Tolerance