

P-NUMBER CHART

GROUPING OF BASE METALS INTO P-NUMBERS

P-NUMBER	GENERAL DESCRIPTION	TYPICAL MATERIAL SPECIFICATIONS WITHIN THIS P-NUMBER GROUP
1	Carbon Steel	SA-36, SA-106 GR B, SA-350 GR, LF1, SA-515 GR, 70
3	0.5% Cr & 0.5% Mo Steels	SA-209 T1, SA-213 T2, SA-234 WP1, SA-335 P1 & P2
4	1.25% Cr-Mo Steels	SA-182 F11 CL, 1, SA-213 T11, SA-335 P11
5A	2.25% Cr 1% Mo Steels up to 75 ksi	SA-182 F22 CL, 1, SA-213 T22, SA-335 P22
5B	5% to 9% Cr-Mo Steels up to 85 ksi	SA-182 F5 & F6, SA-213 T5 & T6, SA-234 WP5 & WP6
5C	2.25% to 9% Cr-Mo Steels over 85 ksi	SA-182 F3V, SA-336 F3V, SA-508 3V, SA-541 3V
6	Stainless Steel - Martensitic	SA-216 TP410 & TP420, SA-182 F6B, F6BH & F62B, A473, 410
7	Stainless Steel - Ferritic	SA-240 TYPE 405, 409, & 410S, SA-240 TYPE 430
8	Stainless Steel - Austenitic	SA-182 F304L, SA-182 F316L, SA-240 TYPE 304L & 316L
9A	2% Ni Steel	SA-182 FR, SA-234 WPR, SA-333 GR, 9, SA-350 LFP9
9B	3% Ni Steel	SA-333 3, SA-350 LFS, CL, 2
9C	4.5% Ni Steel	SA-352 LC4
10A	Low Alloy Steel	SA-225 C & D, SA-487 GR, 1, CL, A & B
10B	Low Alloy Steel	SA-213 T17
10C	Low Alloy Steel	SA-512 UNS K02900
10H	Stainless Steel - Duplex	SA-240 S31803, S32205 & S32750, SA-789 S32205
10I	Stainless Steel - High Cr	SA-182 FXM-270B, SA-240 S44535, SA-336 FXM-270B
10J	Stainless Steel - High Cr & Mo	SA-240 S44700, SA-248 S44755, SA-479 S44700
10K	Stainless Steel - High Cr, Mo & Ni	SA-240 S44700, SA-248 S44755, SA-479 S44700
11A	HSLA (High Strength Low Alloy)	SA-333 B, SA-420 WPL8, SA-533 TYPE A, CL, 3
11B	HSLA (High Strength Low Alloy)	SA-507 A, E, F, & B, SA-592 F
11C	Age Hardening Alloy Steel Forgings	A659 TYPE A, CL, 1
15B	9% Cr Creep strength enhanced	SA-182 P92, SA-213 T91 & T92, SA-335 P91 & P92
21	Aluminum - 1000 & 3000 series	SB-209 A95050, SB-221 A91100, SB-234 A91050
22	Aluminum - 5000 series	SB-209 A95052, SB-221 A95454, SB-234 A95052
23	Aluminum - 6000 series	SB-209 A96061, SB-221 A96061, SB-221 A96063
25	Aluminum - 5000 series	SB-209 A95456, SB-221 A95456, SB-241 A95086
26	Aluminum Castings	SB-26 A26430 & A03560
31	Copper	SB-171 C10200, SB-152 C10400, SB-187 C10200
32	Brass	SB-171 C28000, SB-135 C23000, SB-283 C46400
33	Cu-Si Alloys	SB-198 C65500, SB-283 C65500
34	Cu-Ni Alloys	SB-171 C70400, SB-359 C70600, SB-466 C71500
35	Aluminum Bronze Alloys	SB-171 C60800, SB-148 C95500, SB-150 C61400
41	Nickel Alloys	SB-160 N02200, SB-161 N02200, SB-162 N02200
42	Ni-Cu Alloys	UNS ¹ N04400, N04405 (MONEL [®])
43	Ni-Cr-Fe Alloys	UNS ¹ N06600, N06625, N10276 (INCONEL [®] & HASTELLOY [®])
44	Ni-Mo & Ni-Mo-Cr Alloys	UNS ¹ N06022, N10629, N10665, N10675, (HASTELLOY [®])
45	Ni-Cr-Fe & Ni-Fe-Cr-Mo-Cu Alloys	UNS ¹ N08800, N08803, N08810, N08825 (INCOLOY [®])
46	Ni-Cr-Si Alloys	UNS ¹ N06045, N06330, N12160
49	Ni-Cr-Co-Mo-Fe-W Alloys	SB-815 UNS R31233 SB-818 UNS R31233
51	Titanium Alloy 35-58 ksi	UNS ¹ R50250, R50400, R52400, R52404
52	Titanium Alloy 65-70 ksi	UNS ¹ R50550, R53400
53	Titanium Alloy 90 ksi	UNS ¹ R56320, R56523
61	Zirconium 55 ksi	SB-523 TYPE R60702 - ALL PRODUCT FORMS UNS R60702
62	Zirconium 70-80 ksi	SB-523 TYPE R60705 - ALL PRODUCT FORMS UNS R60705

TO REDUCE THE NUMBER OF PROCEDURE QUALIFICATIONS REQUIRED, BASE METALS HAVE BEEN GROUPED INTO PROCEDURE GROUPS WITH ESSENTIALLY COMPARABLE CHARACTERISTICS (1) IS FOR PROCEDURE

2. THESE CIRCUMSTANCES OR ASSUMPTIONS DO NOT IMPLY THAT BASE METALS MAY BE INCONSIDERABLY SUBSTITUTED WITHOUT CONSIDERATION OF COMPATIBILITY. SOUND ENGINEERING JUDGMENT MUST COVER THE MATERIAL

3. SPECIFICATION IS ESSENTIALLY EQUIVALENT TO THE PRODUCT FORM, THE TYPE OR GRADE OF THAT SPECIFICATION CAN DRAMATICALLY CHANGE THE P-NUMBER CLASSIFICATION SO ALWAYS INCLUDE & REFERENCE BOTH
 (SA-213 T2 - P-NUMBER 3, SA-213 T11 - P-NUMBER 4 & SA-213 T22 - P-NUMBER 5A) (SA-335 P1 - P-NUMBER 3, SA-335 P2 - P-NUMBER 3, SA-335 P11 - P-NUMBER 4, SA-335 P22 - P-NUMBER 5A) (SA-336 F3V - P-NUMBER 5C)

*FOR REFERENCE ONLY; SEE CURRENT ASME SECTION IX FOR OFFICIAL INFORMATION

Asme P Numbers Welding Engineer

S Ashworth

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name S Ashworth.

Asme P Numbers Welding Engineer:

Welding Engineering David H. Phillips, 2016-02-16 Provides an introduction to all of the important topics in welding engineering. It covers a broad range of subjects and presents each topic in a relatively simple easy to understand manner with emphasis on the fundamental engineering principles. Comprehensive coverage of all welding engineering topics. Presented in a simple easy to understand format. Emphasises concepts and fundamental principles. *Handbook of Engineering Practice of Materials and Corrosion* Jung-Chul (Thomas) Eun, 2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries. The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity. A central focus is placed on industrial requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility. The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies. *Piping Engineering* Karan Sotoodeh, 2022-11-08 Eliminate or reduce unwanted emissions with the piping engineering techniques and strategies contained in this book. *Piping Engineering Preventing Fugitive Emission in the Oil and Gas Industry* is a practical and comprehensive examination of strategies for the reduction or avoidance of fugitive emissions in the oil and gas industry. The book covers key considerations and calculations for piping and fitting design and selection maintenance and troubleshooting to eliminate or reduce emissions as well as the various components that can allow for or cause them including piping flange joints. The author explores leak detection and repair LDAR a key technique for managing fugitive emissions. He also discusses piping stresses like principal displacement sustained occasional and reaction loads and how to calculate these loads and acceptable limits. Various devices to tighten the bolts for flanges are described as are essential flange fabrications and installation tolerances. The book also includes Various methods and calculations for corrosion rate calculation flange leakage analysis and different piping load measurements. Industry case studies that include calculations codes and references. Focuses on critical areas related to piping engineering to prevent emission including material and corrosion stress analysis flange joints and weld joints. Coverage of piping material selection for offshore oil and gas and onshore refineries and petrochemical plants. Ideal for professionals in the oil and gas industry and mechanical and piping engineers. *Piping Engineering Preventing Fugitive Emission in the Oil and Gas Industry* is also a must read resource for environmental engineers in the public and private sectors. *Welding Engineer*, 1928 *Applied Welding Engineering* Ramesh Singh, 2015-10-24 A practical and in depth guide to materials selection welding techniques and procedures. *Applied Welding Engineering Processes Codes and Standards* provides expert advice for complying with international codes as well as working them into day to day design construction and inspection activities. New content in this edition covers the standards

and codes of the Canadian Welding Society and the DNV standards in addition to updates to existing coverage of the American Welding Society American Society of Mechanical Engineers The Welding Institute UK The book's four part treatment starts with a clear and rigorous exposition of the science of metallurgy including but not limited to Alloys Physical Metallurgy Structure of Materials Non Ferrous Materials Mechanical Properties and Testing of Metals and Heat Treatment of Steels This is followed by applications Welding Metallurgy Welding Processes Nondestructive Testing and Codes and Standards Case studies are included in the book to provide a bridge between theory and the real world of welding engineering Other topics addressed include Mechanical Properties and Testing of Metals Heat Treatment of Steels Effect of Heat on Material During Welding Stresses Shrinkage and Distortion in Welding Welding Corrosion Resistant Alloys Stainless Steel Welding Defects and Inspection Codes Specifications and Standards Rules for developing efficient welding designs and fabrication procedures Expert advice for complying with international codes and standards from the American Welding Society American Society of Mechanical Engineers and The Welding Institute UK Practical in depth instruction for the selection of the materials incorporated in the joint joint inspection and the quality control for the final product

Heat Exchanger Design Handbook Kuppan Thulukkanam, 2000-02-23 This comprehensive reference covers all the important aspects of heat exchangers HEs their design and modes of operation and practical large scale applications in process power petroleum transport air conditioning refrigeration cryogenics heat recovery energy and other industries Reflecting the author's extensive practical experience

Advanced Manufacturing Techniques for Engineering and Engineered Materials Thanigaivelan, R., Rajan, N., Argul, T.G., 2022-03-11 As technology advances it is imperative to stay current in the newest developments made within the engineering industry and within material sciences Trends in manufacturing such as 3D printing casting welding surface modification computer numerical control CNC non traditional Industry 4.0 ergonomics and hybrid machining methods must be closely examined to utilize these important resources for the betterment of society Advanced Manufacturing Techniques for Engineering and Engineered Materials provides a unified and complete overview about the recent and emerging trends developments and associated technology with scope for the commercialization of techniques specific to manufacturing materials This book also reviews the various machining methods for difficult to cut materials and novel materials including matrix composites Covering topics such as agro waste conventional machining and material performance this book is an essential resource for researchers engineers technologists students and professors of higher education industry workers entrepreneurs researchers and academicians

Introduction to Piping Engineering RAM BABU SAO, 2025-03-23 It gives me great pleasure and sense of deep satisfaction to publish this book of Introduction to Piping Engineering You can learn how to design material selection and testing fabrication erection construction inspections and quality control of pipe along with weld joints detail joint preparation pipe cutting joints fit up welding of pipe pipe supports and steel structural platforms fabrication and installation etc and teach yourself to be a master of the process piping

construction with the step by step instructions and quality control It provides all the information about tools and equipments being used in the piping construction work An engineer is the tradesperson who is busy in fabrication installation assembly testing maintenance and repair of process piping systems Fresh Piping engineer usually begins as apprentices and deals with industrial commercial marine piping and process piping systems Typical industrial process pipe works under high pressure and temperature and requires metals such as carbon steel stainless steel alloy steel cupronical and many different alloying metals fused together through precise cutting threading grooving bending and welding Piping engineer plan and test piping and tubing layouts cut bend or fabricated pipe or tubing segments and joints of those segments by threading welding brazing cementing or soldering them together They check the installation of manual pneumatic hydraulic and electric operated valves on pipes to control the flow through the pipes or tubes They carry out testing and inspection of the piping system Piping engineers are often exposed to hazardous or dangerous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling Other occupational hazards include exposure to the weather heavy lifting crushing hazards lacerations and other risks normal to the construction industry This book has proved to be a friend and guide to many Piping engineer Contractors and Technicians working with any Construction or Consultants Companies who are responsible for Laying out assembling or installation of piping systems pipe supports applying their knowledge of construction experience following blueprints and select the type and size of pipe related materials and equipment such as supports hangers and hydraulic cylinders according to piping drawings and specifications Piping engineers are the main technical professionals who are responsible to deliver the quality job of piping work and they should have sufficient knowledge of Piping Engineering subject This will result in improving the general quality levels of a Piping engineer in this direction leading to a greater satisfaction in work This book is taking a lead in upgrading the awareness knowledge of various matters related with piping work benefiting Piping engineers working in the field of piping work The total practical approach of this book explodes the statistical data on mathematics physics chemistry and engineering that even the piping engineering subject is tough and difficult to understand a general reader or beginners willing to know about the subject will find the content very easy and simple to follow I hope that the excellence of this book will be appreciated by the readers from all parts of India and abroad

Mechanical Engineering ,1919 **Piping and Pipeline Engineering** George A. Antaki,2003-05-28 Taking a big picture approach Piping and Pipeline Engineering Design Construction Maintenance Integrity and Repair elucidates the fundamental steps to any successful piping and pipeline engineering project whether it is routine maintenance or a new multi million dollar project The author explores the qualitative details calculations and techniques that are essential in supporting competent decisions He pairs coverage of real

world practice with the underlying technical principles in materials design construction inspection testing and maintenance Discover the seven essential principles that will help establish a balance between production cost safety and integrity of piping systems and pipelines The book includes coverage of codes and standards design analysis welding and inspection corrosion mechanisms fitness for service and failure analysis and an overview of valve selection and application It features the technical basis of piping and pipeline code design rules for normal operating conditions and occasional loads and addresses the fundamental principles of materials design fabrication testing and corrosion and their effect on system integrity

Oil and Gas Pipelines and Piping Systems Alireza Bahadori, 2016-09-10 Oil and Gas Pipelines and Piping Systems Design Construction Management and Inspection delivers all the critical aspects needed for oil and gas piping and pipeline condition monitoring and maintenance along with tactics to minimize costly disruptions within operations Broken up into two logical parts the book begins with coverage on pipelines including essential topics such as material selection designing for oil and gas central facilities tank farms and depots the construction and installment of transportation pipelines pipe cleaning and maintenance checklists Moving over to piping information covers piping material selection and designing and construction of plant piping systems with attention paid to flexibility analysis on piping stress a must have component for both refineries with piping and pipeline systems Heavily illustrated and practical for engineers and managers in oil and gas today the book supplies the oil and gas industry with a must have reference for safe and effective pipeline and piping operations Presents valuable perspectives on pipelines and piping operations specific to the oil and gas industry Provides all the relevant American and European codes and standards as well as English and Metric units for easier reference Includes numerous visualizations of equipment and operations with illustrations from various worldwide case studies and locations

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1977 **Welding Journal**, 1945 Current welding literature included in each volume **Kent's Mechanical Engineers' Handbook** William Kent, 1923

Introduction to Piping Quality Control Ram Babu Sao, 2025-03-23 The terms Quality Control and Quality Assurance are often used interchangeably but they are not synonymous Quality Assurance is a program executed by company management Quality Control is a task that takes place on the production floor Two aspects are quality control QC and quality assurance QA Understanding these programs and their roles is critical in making sure the respective engineer to carry out their duties effectively There are three most important criteria for evaluating the Quality Control of work such as Cost Time of delivery and Quality Quality is most important factor out of the three Quality isn't simply a cost It is a powerful tool that contributes to the economic success of the work Therefore there is need to control all three but quality is the most significant Many manufacturers recognize that quality leads to a higher customer retention rate and helps to build competitive boundaries However the term quality by itself isn't sufficient ISO 9000 definitions the QC is the operational techniques and activities that are utilized to fulfil requirements for quality and QA is all those planned and systematic activities implemented to provide

adequate confidence that the entity will fulfil requirements for quality QC is a production line function The aim of QC is to offer the highest reasonable quality of product or service to the client thereby meeting or even exceeding the client s requirements The QA manager is interested in investigating technologies and processes that prevent defects QA is a staff function The aim of QA is to apply a planned and systematic production process establishing confidence that the process generates suitable products QC method is intended to provide regular product inspection thereby guaranteeing the output s correctness completeness and integrity It finds and addresses mistakes They file and record all the QC procedures The product or service needs to be suitable and fit for the intended purpose The methods and processes should decrease errors and shortcomings the first time through the manufacturing process QC is product oriented it focuses on tests and inspections carried out at various production line checkpoints QA is process oriented its concerns are process definitions proper selection of tools proper use of testing methods and operator training QC works at locating defects QA works at preventing them QC emphasizes testing of products to discover defects and reporting the results to management QA attempts to improve and stabilize production to minimize or prevent the conditions that trigger defects Typically quality control involves problem identification problem analysis problem correction and feedback Quality assurance involves data collection problem trend analysis process identification process analysis and process improvement **ASME Section IX Simplified:**

Fundamentals, Variables, Welder Qualification, Compliance and Audits Sumitra Kumari, Master the complexities of ASME Section IX with this comprehensive easy to understand guide designed for welding inspectors engineers and quality control professionals ASME Section IX Simplified breaks down the fundamentals of welding procedure and performance qualification making it accessible for both beginners and experienced professionals Whether you re preparing for welder qualification ensuring compliance or navigating audits this asme section ix welder qualification book provides clear explanations real world applications and expert insights to help you succeed What You ll Learn Fundamentals of ASME Section IX Key concepts explained in simple language Welding Variables Essential non essential and supplementary variables demystified Welder Qualification Step by step guides for GMAW GTAW SMAW FCAW and SAW in all positions Compliance Audits How to avoid common failures and maintain certification Material Filler Metal Selection Understanding P Numbers F Numbers and A Numbers This welder qualification book is an essential resource for anyone working with welding qualification and compliance under ASME Section IX Whether you re a welding inspector engineer or quality control professional this guide will boost your expertise and confidence in handling welder and procedure qualification with ease

Introduction to Knowledge of Piping Engineering Ram Babu Sao, It gives me great pleasure and a sense of deep satisfaction to publish this book Introduction to Knowledge of Piping Engineering You can learn how to design material selection and test fabrication erect construct inspections and quality control pipe along with weld joints detail joint preparation pipe cutting joints fit up welding of pipe pipe supports and steel structural platforms fabrication and installation

etc and teach yourself to be a master of the process piping construction with the step by step instructions and quality control It provides all the information about tools and types of equipment being used in the piping construction work An engineer is a tradesperson who is busy in the fabrication installation assembly testing maintenance and repair of process piping systems Fresh Piping engineer usually begins as apprentices and deal with industrial commercial marine piping and process piping systems Typical industrial process pipe works under high pressure and temperature and requires metals such as carbon steel stainless steel alloy steel cupronickel and many different alloying metals fused through precise cutting threading grooving bending and welding Piping engineers plan and test piping and tubing layouts cut bend or fabricate pipe or tubing segments and joints of those segments by threading welding brazing cementing or soldering them together They check the installation of manual pneumatic hydraulic and electric operated valves on pipes to control the flow through the pipes or tubes They do testing and inspection of the piping system Piping engineers are often exposed to hazardous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling

Perry's Chemical Engineers' Handbook Robert H. Perry, Don W. Green, James O. Maloney, 1984 From the fundamentals to details on computer applications and control this handbook provides unrivaled state of the art coverage of all aspects of chemical engineering The seventh edition is completely updated and includes new topics such as biochemical engineering waste management plant safety analysis of plant performance and handling of hazardous materials Over 1 700 illus Copyright Libri GmbH All rights reserved

Corrosion and Materials Selection Alireza Bahadori, 2014-08-11 The petroleum and chemical industries contain a wide variety of corrosive environments many of which are unique to these industries Oil and gas production operations consume a tremendous amount of iron and steel pipe tubing pumps valves and sucker rods Metallic corrosion is costly However the cost of corrosion is not just financial Beyond the huge direct outlay of funds to repair or replace corroded structures are the indirect costs natural resources potential hazards and lost opportunity Wasting natural resources is a direct contradiction to the growing need for sustainable development By selecting the correct material and applying proper corrosion protection methods these costs can be reduced or even eliminated This book provides a minimum design requirement for consideration when designing systems in order to prevent or control corrosion damage safely and economically and addresses Corrosion problems in petroleum and chemical industries Requirements for corrosion control Chemical control of corrosive environments Corrosion inhibitors in refineries and petrochemical plants Materials selection and service life of materials Surface preparation protection and maintainability Corrosion monitoring plant inspection techniques and laboratory corrosion testing techniques Intended for engineers and industry personnel working in the petroleum and chemical industries this book is also a valuable resource for research and development teams safety

engineers corrosion specialists and researchers in chemical engineering engineering and materials science
on Boilermakers, 1983 United States. Congress. Senate. Committee on Labor and Human Resources, 1984

Oversight

The Top Books of the Year Asme P Numbers Welding Engineer The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Asme P Numbers Welding Engineer Introduction

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