

Table S3 Category description of DWPI Manual Code

Section	Class	Explanation
A	02	Polymerisation Controllers
A	03	Natural Polymers
A	04	Addition Polymers
A	05	Condensation Polymers
A	06	Inorganic Polymers
A	07	Polymer Blends, Aqueous Dispersions
A	08	Additives
A	09	Properties, analysis, testing, control
A	10	Polymerisation, polymer modification
A	11	Processing polymers including equipment
A	12	Polymer applications
B	04	Natural products (or genetically engineered), polymers
B	05	Miscellaneous
B	06	Heterocyclics, Fused Ring
B	10	Aromatics and cycloaliphatics (mono and bicyclic only), aliphatics
B	11	Processes, Apparatus
B	12	Diagnostics and formulation types (therapeutic, pesticidal, herbicidal)
B	14	Pharmaceutical Activities
C	02	Antibiotics
C	04	Natural products (or genetically engineered), polymers
C	05	Miscellaneous
C	06	Heterocyclics, Fused Ring
C	07	Heterocyclics, Mononuclear
C	08	Aromatics, Polycarbocyclic
C	09	Alicyclics, Polycarbocyclic
C	10	Aromatics and cycloaliphatics (mono and bicyclic only), aliphatics
C	11	Processes, Apparatus
C	12	Diagnostics and formulation types (therapeutic, pesticidal, herbicidal)
C	14	Agricultural Activities
C	15	Vitamins
D	03	Foodstuffs and Treatment

D	04	Treating water, waste water and sewage
D	05	Fermentation Industry
D	07	Skins, hides, pelts, leather, tobacco
D	08	Cosmetics, dental, toilet preparations
D	09	Sterilising and disinfecting, bandages and dressings
D	10	Animal and Vegetable Oils
D	11	Detergents, Soap, Glycerol
E	04	Other Natural Materials
E	05	Miscellaneous Organic
E	06	Heterocyclic Fused Rings
E	07	Heterocyclic, Mononuclear
E	08	Aromatic, Polycarbocyclic
E	10	Aromatic and cyclo aliphatic (mono and bicyclic only), aliphatic
E	11	Processes, Apparatus
E	12	Physical Form
E	25	General and Other Dyes
E	32	Ammonia, cyanogen and compounds [general]
E	33	Alkali Metal Compounds
E	34	Compounds of be, Mg, Al, Ca, Sr, Ba, Ra, Th, rare earths [general]
E	35	Compounds of Other Metals
F	01	Natural/Synthetic Threads/Fibres
F	02	Fabrics and their Production
F	03	Treatment of Fabric Products
F	04	Textile Applications
F	05	Paper and Wood
G	02	Coatings, paints, inks, natural resins, polishes
G	03	Adhesives
G	04	Miscellaneous compositions and applications
G	06	Photographic materials and processes
H	01	Crude Oil and Natural Gas
H	03	Transportation and Storage
H	04	Petroleum Processing
H	06	Gaseous and Liquid Fuels
H	07	Lubricants and Lubrication

H	09	Fuels not of Petroleum Origin
J	01	Separation
J	02	Mixing, Crushing, Spraying
J	03	Electrochemical processes, electrophoresis
J	04	Chemical/physical processes/apparatus
K	07	Health Physics
L	02	Refractories, Ceramics, Cement
L	03	Electro-(in)organics
M	14	Other chemical metal surface treatment
M	22	Casting, Powder Metallurgy
M	24	Metallurgy of Iron and Steel
M	25	Non-ferrous metal production/refining
M	28	Electrolytic/electrothermic production/refining metals
N	01	Alkali(ne earth) metal, B, Al, Si - element, (hydr)oxide, inorganic salt, carboxylate catalyst
N	02	Fe, Co, Ni, Cu, noble metal - element, (hydr)oxide, inorganic salt, carboxylate [general]
N	03	Other metal - element, (hydr)oxide, inorganic salt, carboxylate catalyst [general]
N	04	C, N, O, P, S, Se, Te, halogen - element, inorganic compound catalyst [general]
N	05	Metal hydride, coordination complex, organic compound catalyst (excluding carboxylate) [general]
N	06	Molecular sieve, zeolite, special form, general
N	07	Catalyst applications and uses
P	11	SOIL WORKING; PLANTING
P	12	HARVESTING
P	13	PLANT CULTURE; DAIRY PRODUCTS
P	32	DENTISTRY, BANDAGES, VETERINARY, PROSTHESIS
P	34	STERILIZING, SYRINGES
P	35	LIFE SAVING, SAFETY, FIREFIGHTING, FIRE EXTINGUISHING AND FIRE PREVENTION
P	41	CRUSHING, CENTRIFUGING, SEPARATING SOLIDS, SORTING
P	42	SPRAYING, ATOMIZING, COATING, SURFACE TREATMENT AND LIQUID APPLICATION
P	43	GENERATING AND USING MECHANICAL VIBRATIONS, CLEANING, WASTE DISPOSAL
P	53	METAL CASTING AND POWDER METALLURGY
P	62	HAND TOOLS, CUTTING
P	71	PRESSES
P	73	LAYERED PRODUCTS

P	85	EDUCATIONAL, CRYPTOGRAPHIC OR ADVERTISING APPARATUS OR SYSTEMS
Q	15	TRANSPORTING SPECIAL LOADS
Q	17	VEHICLE CONSTRUCTION, FITTINGS, PROPULSION ARRANGEMENTS
Q	19	VEHICLE APPLICATIONS
Q	22	HAND/FOOT/ANIMAL DRAWN VEHICLES
Q	32	CONTAINER/CLOSURE TYPES, SPECIAL PACKAGING FEATURES AND TRANSIT PACKAGING
Q	33	PACKAGING CONTAINER AND CLOSURE MATERIALS
Q	34	TYPES OF GOODS PACKAGED, BOTTLED, BOUND, LABELLED, UNPACKED
Q	35	REFUSE COLLECTION; CONVEYORS
Q	42	HYDRAULIC ENGINEERING, SOIL SHIFTING AND SEWERAGE
Q	43	GENERAL BUILDING CONSTRUCTIONS
Q	49	MINING
Q	55	POSITIVE DISPLACEMENT FLUID MACHINES/PUMPS/COMPRESSORS
Q	57	FLUID PRESSURE ACTUATORS; HYDRAULIC/PNEUMATICS IN GENERAL
Q	63	COUPLINGS; CLUTCHES; BRAKES; SPRINGS; DAMPERS
Q	68	OTHER ENGINEERING ELEMENTS
Q	73	COMBUSTION APPARATUS AND PROCESSES
Q	74	HEATING, RANGES AND VENTILATING
Q	76	DRYING
Q	77	FURNACES, KILNS, OVENS, RETORTS
Q	78	HEAT EXCHANGE
S	01	ELECTRICAL INSTRUMENTS
S	02	ENGINEERING INSTRUMENTATION
S	03	SCIENTIFIC INSTRUMENTATION
S	05	ELECTRICAL MEDICAL EQUIPMENT
T	01	DIGITAL COMPUTERS
T	04	COMPUTER PERIPHERAL EQUIPMENT
T	05	COUNTING, CHECKING, VENDING, ATM AND POS SYSTEMS
T	06	PROCESS AND MACHINE CONTROL
U	11	SEMICONDUCTOR MATERIALS AND PROCESSES
U	24	AMPLIFIER AND LOW POWER SUPPLIES
V	01	RESISTORS AND CAPACITORS
V	03	SWITCHES, RELAYS

V	04	PRINTED CIRCUITS AND CONNECTORS
V	05	VALVES, DISCHARGE TUBES AND CRTS
V	06	ELECTROMECHANICAL TRANSDUCERS AND SMALL MACHINES
V	07	FIBER-OPTICS AND LIGHT CONTROL
V	08	LASERS AND MASERS
W	01	TELEPHONE AND DATA TRANSMISSION SYSTEMS
W	02	BROADCASTING, RADIO AND LINE TRANSMISSION SYSTEMS
W	04	AUDIO/VISUAL RECORDING AND SYSTEMS
W	05	ALARMS, SIGNALLING, TELEMETRY AND TELECONTROL
W	06	AVIATION, MARINE AND RADAR SYSTEMS
X	11	POWER GENERATION AND HIGH POWER MACHINES
X	12	POWER DISTRIBUTION/COMPONENTS/CONVERTERS
X	15	NON-FOSSIL FUEL POWER GENERATING SYSTEMS
X	16	ELECTROCHEMICAL STORAGE
X	22	AUTOMOTIVE ELECTRICS
X	25	INDUSTRIAL ELECTRIC EQUIPMENT

X	27	DOMESTIC ELECTRICAL APPLIANCES
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