

STEEL WORLDWIDE PARTNERSHIP



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Company Profile



Metalline Supply Group Co., Ltd. keeps strong connections with global premium steel network. We work closely with leading steel manufacturers and reliable inventory houses throughout the world to secure the highest standard of steel piping supply in Thailand and overseas since 2005.

Our philosophy....

To ensure that we consistently supply materials and service to the highest standards, and continuously meet customer's requirements and satisfaction whether you need a single item from stock or a complex package from variety sources for your project.

Why us?

- All material is supplied with mill certificates and hard stamped for full traceability request.
- A Trusted and Qualified Company in Piping and Steel Supply for Several Years
- Total Steel Supply for Project Work
- Single item or Complex Package Supply for Hard-to-Find Material
- Custom Manufacturing
- Technical Consultation
- Fast Delivery Need
- Testing and Finishing Services through Qualified Third-Party Inspectors
- Bonds & Guarantees Requirement

Those are for reasons that **METALLINE SUPPLY GROUP** has developed a dedicated project team with an understanding of your project needs.



ASTM Standard Specification (Pipes & Tubes)

Carbon & Alloy Pipes & Tubes

- API 5L Line Pipe Oil Gas / API 5D Drilling Pipe / API 5CT Casing and Tubing
- ASTM A53 Pipe Steel Black and Hot Dipped Zinc Coated Welded and Seamless
- ASTM A106 Seamless Carbon Steel Pipe for High Temperature Service
- ASTM A134 Pipe Steel Electric Fusion(ARC) Welded
- ASTM A135 Pipe Steel Electric Fusion(ARC) Welded
- ASTM A139 Electric Resistance Welded Steel Pipe
- ASTM A178 Electric Resistance Welded Carbon Steel Boiler Tubes
- ASTM A179 Seamless Cold Drawn Low Carbon Steel Heat Exchanger and Condenser Tubes
- ASTM A192 Seamless Carbon Steel Boiler Tubes for High Pressure Service
- ASTM A199 Seamless Cold Drawn Intermediate Alloy Steel Heat Exchanger and Condenser Tubes
- ASTM A200 Seamless Intermediate Alloy Steel Still Tubes for Refinery Service
- ASTM A209 Seamless Carbon Molybdenum Alloy Steel Boiler and Superheater Tubes
- ASTM A210 Seamless Medium Carbon Steel Boiler and Superheater Tubes
- ASTM A211 Spiral Welded Steel or Iron Pipe
- ASTM A214 Electric Resistance Welded Carbon Steel Heat Exchanger and Condenser Tubes
- ASTM A226 Electric Resistance Welded Carbon Steel Boiler and Superheater Tubes for High Pressure Service
- ASTM A250 Electric Resistance Welded Carbon Molybdenum Alloy Steel Boiler and Superheater Tubes
- ASTM A252 Welded and Seamless Steel Pipe Piles
- ASTM A333 Seamless and Welded Steel Pipe for Low Temperature Service
- ASTM A334 Seamless and Welded Carbon and Alloy Steel Tubes for Low Temperature Service
- ASTM A335 Seamless Ferritic Alloy Steel Pipe for High Temperature Service
- ASTM A500 Cold Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes
- ASTM A513 Electric Resistance Welded Carbon and Alloy Steel Mechanical Tubing
- ASTM A523 Plain end Seamless and Electric Resistance Welded Steel Pipe for High Pressure Pipe Type Cable Circuits
- ASTM A539 Electric Resistance Welded Coiled Steel Tubing for Gas and Fuel Oil Lines
- ASTM A692 Seamless Medium Strength Carbon Molybdenum
- ASTM A787 Electric Resistance Welded Metallic Coated Carbon Steel Mechanical Tubing
- ASTM A795 Black and Hot-Dipped Zinc Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use
- ASTM B163 Seamless Nickel and Nickel Alloy Condenser and Heat Exchanger Tubes
- ASTM B165 Nickel Copper Alloy Seamless Pipe and Tube
- ASTM B167 Nickel-Chromium-Iron Alloys Seamless Pipe and Tube
- ASTM B315 Seamless Copper Alloy Pipe and Tube

Stainless Steel Pipes & Tubes

- ASTM A269 Seamless and Welded Austenitic Stainless Steel Tubing for General Service
- ASTM A312 Seamless and Welded Austenitic Stainless Steel Pipe
- ASTM A213 Seamless Ferritic and Austenitic Alloy Steel Boiler Superheater and Heat Exchanger Tubes
- ASTM A249 Welded Austenitic Steel Boiler Superheater Heat Exchanger and Condenser Tubes
- ASTM A268 Seamless and Welded Ferritic Stainless Steel Tubing for General Service
- ASTM A269 Seamless and Welded Austenitic Stainless Steel Tubing for General Service
- ASTM A270 Seamless and Welded Austenitic Stainless Steel Sanitary Tubing
- ASTM A271 Seamless Austenitic Chromium Nickel Steel still Tubes for Refinery Service
- ASTM A358 Electric Fusion Welded Austenitic Chromium Nickel Alloy Steel Pipe for High Temperature Service
- ASTM A381 Metal Arc Welded Steel Pipe for Use with High Pressure Transmission Systems
- ASTM A409 Welded Large Diameter Austenitic Steel Pipe for Corrosive or High temperature Service
- ASTM A778 Welded Unannealed Austenitic Stainless Tubular Products
- ASTM A789 Seamless and Welded Ferritic Austenitic Stainless Steel Pipe for General Service
- ASTM A790 Ferritic / Austenitic Stainless Steel Pipe
- ASTM A791 Welded Unannealed Ferritic Stainless Steel Tubing
- ASTM A803 Welded Ferritic Stainless Steel Feed Water Heater Tubes

Products



- Seamless & Welded Pipes
- Underground Pipeline (Coated Pipe)
- Seamless & Welded Tubes
- Butt-Weld Fittings
- Forged Fittings & O-lets
- Flanges, Sweivel Flanges
- Bolts & Nuts
- Gaskets
- Seamless & Welded Tubulars
- Structural Steel Sections & Plates



Pipe & Fitting Specifications

CHROME MOLY, LOW TEMPERATURE, CARBON STEEL & STAINLESS

PRODUCT	SPECIFICATION	GRADE
CHROME MOLY		
Seamless Pipe	ASTM/ASME A/SA 335	P1, P11, P22, P5, P9, P91
Butt Weld Fittings	ASTM/ASME A/SA 234	WP11, WP22, WP5, W99, WP91
Flanges	ASTM/ASME A/SA 182	F11, F22, F5, F9, F91
Forged Fittings	ASTM/ASME A/SA 182	F11, F22, F5, F9, F91
LOW TEMPERATURE		
Seamless Pipe	ASTM/ASME A/SA 333	Grade 1, Grade 3, Grade 6
Welded Pipe	ASTM/ASME A/SA 672	C60, C70
Butt Weld Fittings	ASTM/ASME A/SA 420	WPL3, WPL6
Flanges	ASTM/ASME A/SA 350	LF2, LF3
Forged Fittings	ASTM/ASME A/SA 350	LF2
CARBON STEEL		
Seamless Pipe	ASTM/ASME A/SA 106-B, API5L-	X42, X52, X56, X60, X65, X70 X80, (PSL1, PSL2)
Welded Pipe	API5L-	B, X42, X52, X56, X60, X65, X70, X80, (PSL1, PSL2)
Welded/Spiral Pipe	AWWA C200	
Butt Weld Fittings	ASTM/ASME A/SA 234	WPB, WPHY42, WPHY52, WPHY65, WPHY70
Flanges	ASTM/ASME A/SA 105	
	ASTM/ASME A/SA 694	F42, F52, F56, F60, F65, F70, F80
Forged Fittings	ASTM/ASME A/SA 105N	
	ASTM/ASME A/SA 694	F42, F52, F56, F60, F65, F70, F80
STAINLESS/DUPLEX		
Seamless Pipe	ASTM/ASME A/SA 312/376	TP304/L, TP316/L, TP304/H, TP321/H, TP347/H
	ASTM/ASME A/SA 790	UNS S31803/S32205 Duplex
Welded Pipe	ASTM/ASME A/SA 790	UNS S31803/S32205 Duplex
Butt Weld Fittings	ASTM/ASME A/SA 403	WP321/H, WP347/H
	ASTM/ASME A/SA 815	S31803/S32205 Duplex
Flanges	ASTM/ASME A/SA 182	F321/H, F347/H, F51 Duplex
Forged Fittings	ASTM/ASME A/SA 182	F51 Duplex

EXOTICS

Alloy 20
Inconel 600
Incoloy 625
Titanium
OCTG PIPE API 5CT



Tubulars

STRUCTURAL SEAMLESS TUBULARS

MATERIAL SPECIFICATION

EN 10225:2001 S355G15+N

BS 7191 1989 355EM

API 5L X52 Modified

All manufactured to restricted chemistry and enhanced mechanical properties.

Full certified to EN 10204:2004 Type 3.2 Compliance to NACE MR-01-75

OUTSIDE DIAMETER	WALL THICKNESS RANGE (MM)
60.3 mm	3.91, 5.50, 7.10, 8.74, 11.10
88.9 mm	5.50, 7.62, 11.13, 15.24
114.3 mm	6.02, 8.56, 11.10, 13.49, 17.12
141.3 mm	6.60, 8.70, 9.52, 12.70, 16.00, 19.05, 24.50
168.3 mm	7.11, 9.52, 10.97, 12.70, 14.30, 16.00, 17.50, 18.30, 21.95, 25.40,
193.7 mm	8.00, 10.00, 12.70, 16.00
219.1mm	8.18, 9.52, 10.31, 12.70, 15.90, 19.05, 23.01, 25.40, 31.75
244.5 mm	8.00, 10.00, 12.70, 16.00, 19.05
273.0 mm	9.27, 12.70, 15.90, 19.05, 25.40, 31.75
323.8 mm	9.52, 10.31, 12.70, 14.30, 16.00, 19.05, 25.40, 31.75, 38.10
355.6 mm	9.52, 10.31, 12.70, 15.90, 25.40, 31.75, 38.10, 50.80
406.4 mm	9.52, 12.70, 15.90, 19.05, 20.60, 25.40, 31.75, 38.10, 50.80
457.2 mm	12.70, 16.00, 19.05, 25.40, 31.75, 38.10, 50.80
508.0 mm	12.70, 15.90, 19.05, 20.60, 25.40, 31.80, 38.10, 50.80
559.0 mm	12.70, 16.00, 19.05, 25.40, 31.75, 38.10, 50.80
610.0 mm	12.70, 15.90, 19.05, 20.60, 25.40, 31.80, 38.10, 50.80

Pipe lengths are generally double randoms.

To determind the weight of a seamless tubular, please use the following formula.

$(OD-WT) \times wt \times 0.0246615 = \text{kg per metre.}$

WELDED TUBULARS FOR OFFSHORE APPLICATION

OUTSIDE DIAMETER RANGE	WALL THICKNESS RANGE	SPECIFICATIONS	TYPE
406.4mm - 914.4mm	11.05mm - 50.8mm	API 5L X52, X56 X60, X65. X70, X80	SAW, ERW
457.2 mm - 2743.2mm	12.7mm - 50.8mm	ASTM A252, A671, A672	SAW
		API 5LB	
		API 5L X52, X60, X65. X70	
3.175mm - 660.4mm	0.109mm - 25.4mm	ASTM/ASME A/SA 53	ERW
		ASTM A252, API 5L B	
		API 5L X42, X52 X56, X60. X70	

Structural Steel Sections for Offshore & Onshore Application

PRODUCTS	SPECIFICATIONS
Beam, Column, Channel, Angle, Flats, Rounds, Squares (Imperial & Euronorm Standard)	BS 4360 1986 50D EN 10025 S355J2 + AR BS 7191 1989 355D BS 7191 1989 355DM EN 10225 S355G4 + M EN 10225 S355G12 + M EN 10025 S275JR EN 10023 S355JR AS/NZS 3679.1 300 AS/NZS 3679.1 - 350 EN 10025 S355J2 EN 10025 S355K2 BS 7191 1989 355D BS 7191 1989 355EM EN 10225 S355G4 EN 10225 S355J2+AR EN 10225 S355G 11+M

Structural Steel Plates

SPECIFICATION	DIMENSIONAL RANGE FOR ALL SPECIFICATIONS
EN 10225 S355G3+N, S355G8+N, S355G10+M, S355G10+N EN 10025 S355J2+AR, S355K2+N, S420G2+M EN 10225 S355G8+N, S420, S460 G2+M, S690 BS 7191 1989 355D, 355DM" DNV NV D36, NV E36, NV F401, NV F500 API 2H Grade 50, API 2W Grade 50 ASTM A514 Grade F, ASTM A517 Grade Q ABS AH36, DH36, EH36, EH40, FH40, EQ47, EQ56, FQ70 ASTM A516 Grade 65 HIC, Grade 70 HIC ASTM A572Grade 50, Grade60 , Grade 65 ASTM A514 Grade B, Grade F, Grade H, Garde Q ASTM A656 Grade 80 ASTM A710 EN 10225 S355G8+N, S420, S460 G2+M, S690 Speciality Steels AR400, AR500, Armor Plate Caterpillar Approved Steels	6mm - 180mm

The material is fully qualified to the requirements to API-RP2Z with CTOD's.
All materials available with certification to EN 10204 Type 3.2.

Structural Hollow Section

Material Specification : EN 10210-1 S355J2H

PRODUCT	SIZE RANGE
Square Hollow	40 x 40 x 2.5mm - 5.0 mm 50 x 50 x2.5mm - 6.3mm 60 x 60 x2.5mm - 8.0mm 70 x 70 x 3.0mm - 8.0mm 80 x 80 x 3.0mm - 8.0mm 90 x 90 x 3.6mm - 8.0mm 100 x 100 x 4.0mm -10.0mm 120 x 120 x 4.0mm - 12.5mm 140 x 140 x 5.0mm - 12.5mm 150 x 150 x 5.0mm - 16.0mm 160 x 160 x 5.0mm -16.0mm 180 x 180 x 5.0mm - 16.0mm 200 x 200 x 5.0mm - 16.0mm 250 x 250 x 6.3mm - 16.0mm 300 x 300 x 6.3mm - 16.0mm 350 x 350 x 8.0mm - 16.0mm 400 x 400 x 8.0mm - 20.0mm

Chemical and Mechanical Properties

PROPERTIES	VALUES
Carbon Maximum	0.225
Silicon Maximum	0.55%
Phosphorous Maximum	1.60%
Sulphur Maximum	0.04%
Carbon Equivalent Maximum	0.43%
Tensile	490 - 630 n/mm2
Minimum Yield	355 n/mm2
Impacts (minus 20 degrees centigrade)	27 joules minimum average (10 x 10 specimen)

Services



Coating

- 3 Layer PE Coated Pipes. (for Oil & Gas underground pipeline)
- FBE (Fusion Bonded Epoxy) Coated Pipes.
- Coated & Wrapped Steel Pipe for Water Works.
- Dual FBE Coated
- PTFE
- Hot Dip Galvanize
- Mechanical Galvanize
- Internal Epoxy Lining



Bending

- Hot Induction Bend
- U Bend



YEAR	PROJECT NAME / CUSTOMER REFERENCE	END USER/ CUSTOMER	CLASS & APPLICATION	PRODUCT DESCRIPTION
2005	PIPE & FITTING FOR 34" RECEIVER AND 28" LAUNCHER	PTT PLC.	OIL & GAS	34" & 28" CS PIPE API5L-X65, FITTINGS, FLANGES & FORGED-FITTINGS
2005	PTT NGD	PTT NGD	GAS	4" & 10" ERW PIPES SCH.40, API5L-B WITH PE 3 LPE COATED
2005	VALVE PROJECT-PIPE SUPPORTS STRUCTURE STEEL	AIBEL	CONSTRUCTION FOR OFFSHORE	HOLLOW SECTIONS S355 J2G3
2006	KK2-PTT NATURAL GAS METERING AND REGULATING STATION	PTT PLC.	OIL&GAS	36" SAW PIPE API5L-X65, 0.723" THK. & 30" ERW PIPE API5L-X65, 0.602" THK.
2006	PTT SUKSAWAT	PTT NGD	OIL&GAS	10" ERW PIPE API5L-X65, SCH.40 IN 12 M.PER LENGTH 10" & 8" (90,60,45 DEGREE) ELBOW, FITTINGS MSS-SF-75 WPH65 SCH.40 SMLS
2006	PTT NGV TO THAISTEEL PROFILE	PTT PLC.	OIL&GAS	6" & 8" ERW PIPE API5L-B, SCH.40 IN 12 M.PER LENGTH WITH 3 LPE COATED
2006	VINCENT-PRIMARY & SECONDARY STRUCTURE	AIBEL	CONSTRUCTION FOR OFFSHORE	SAW PIPE API5L-X52/BS7 191 355MZ MOD IN 11.B MTR.LONG
2007	SONGKHLA TRANSMISSION PIPELINE PROJECT	TRC CONSTRUCTION PLC	POWER PLANT	SMLS PIPES, FITINGS, FLANGES, STUD BOLTS, GASKETS
2007	PTTUT-CUP II	THAI SHINRYO	PETROCHEMICAL	(ALLOY GRADE P11) PIPES, FLANGES AND FITTINGS
2007	SIAM MITSUI PTA	SCG GROUP	PETROCHEMICAL	DUPLEX STAINLESS STEEL PIPE UNS S31803 +FITTINGS
2007	OFFSHORE PROJECT	PIPE SUPPORTS	CONSTRUCTION	STUD BOLT & NUTS A193 B7M/A320 A2
2008	VKPC VIETNAM PROJECT	VIETNAM POWER PLANT	POWER PLANT	ALLOY, CS, SS PIPES+FITTINGS+FLANGES
2008	NGV & CITY GAS 2008-2009	PTT PLC.	NATURAL GAS	6" & 4" CS PIPE API5L-B, STD WITH 3 LAYER PE COATED QTY. 27,000 MTRS.
2009	ERP PLATFORM (MAINTENANCE)	PTT PLC.	OFFSHORE	STUD BOLT & NUTS A193 B7M/A320 A2 (PTFE)
2009	TUPI PROJECT	AIBEL	OFFSHORE	STRUCTURAL STEEL
2009	NORTH BANGKOK	ITALTHAI	POWER PLANT	SMLS PIPES, FITINGS, FLANGES, STUD BOLTS, GASKETS
2009	HIN-KONG	TRC CONSTRUCTION PLC	OIL & GAS	SMLS PIPES, FITINGS, FLANGES, STUD BOLTS, GASKETS
2010	PLATFORM COMPRESSION FACILITIES PROJECT	PTT PLC.	OFFSHORE	STUD BOLT & NUTS A193 B7M/A320 A2 (PTFE)
2011	DOUBLE A (POWER PLANT)	DOUBLE A	POWER PLANT	ALL PIPING MATERIALS (ALLOY, CS, SS)
2011	Tuas Tembusu BMOC Plant Project (SINGAPORE)	TUAS SINGAPORE (END USER)	POWER PLANT	ALL PIPING MATERIALS (ALLOY, CS, SS)
2011	PIPE & FITTING GULF 7 STATIONS PIPELINE PROJECT	TRC CONSTRUCTION PLC	OIL & GAS	SMLS PIPES, FITINGS, FLANGES, STUD BOLTS, GASKETS
2011	PIPE & FITTING GULF 7 STATIONS PIPELINE PROJECT	TRC CONSTRUCTION PLC	OIL & GAS	BARRED TEE WPHY65
2012	PTT -NG PIPELINE ALPHA-SUWINTAWONG PROJECT	PTT PLC.	OIL & GAS	HOT INDUCTION BEND
2012	SHUT DOWN MINITA 2013	PTT GLOBAL & CHEMICAL	REFINERY	PIPE AND FITTINGS SS321
2012	ZAWTIKA	THAI NIPPON STEEL (END USER)	OFFSHORE	PIPE X60 SOUR SERVICE
2013	SPP_NG-RW PIPELINE & METERING STATION PROJECT	TOP SPP Company Ltd. THAI OIL)	OIL & GAS	PIPE API5L X42 WITH 3LPE COATED AND FITTING ASTM A860
2014	IRPC PROJECT	PTT PLC.	OIL & GAS	24" SAW PIPE API5L GR.X65 PLS 1 WITH 3 LPE COATED, IN 12 MTR/LG
2014	OIL PIPELINE HYDRANT PHASE II (SUWANNABHUM AIRPORT)	TARCO (END USER)	OIL PIPELINE	3LPE COATED ERW PIPE API5L-B, AND FITTINGS



Qualified Manufacturer List

	MANUFACTURER - BRAND	TYPE	COUNTRY	
Pipe (CS/LTCS/CS ALLOY/SS)	Nippon Steel Corporation JFE Steel Corporation Sumitomo Metal Industries Kobe Seah Hyundai RB *** Husteel Hysco A-Ju Dongyang Posco LS Metal Khartsyzsk *** TENARIS (Dalmine, Siderca, Tamsa, NKK-t, Sircotube) VALLOUREC & MANNESMANN TUBES DMV Mittal Benteller Butting Schulz TPS Avesta Outokumpu Sanvik Corinth Pipeworks Schoeller Bleckmann Tubecax Tubos Reunidos Rivit Gieminox Ilva Innotech	ERW, SMLS PIPE ERW, SMLS PIPE ERW, SMLS PIPE ERW, SMLS PIPE ERW PIPE SAW PIPE ERW PIPE ERW PIPE ERW PIPE SAW PIPE ERW, SMLS PIPE WELDED SS PIPE ERW, SAW, DSAW PIPE ERW, SMLS PIPE SMLS PIPE SMLS PIPE SMLS PIPE SMLS PIPE SMLS PIPE WELDED, SMLS PIPE SMLS PIPE SMLS PIPE ERW, SMLS PIPE ERW PIPE SMLS PIPE SMLS PIPE SMLS PIPE SMLS PIPE WELDED SS PIPE ERW, SAW, DSAW PIPE SMLS PIPE	Japan Japan Japan Japan Korea Korea Korea Korea Korea Korea Korea Korea Ukraine Italy, Argentina, Mexico, Japan, Romania France, Germany, Brazil France, Italy South Africa Germany Germany Germany Germany Sweden, Netherlands Sweden Sweden Greece Austria Spain Spain Italy Italy Italy	
Fitting (CS/LTCS/CS ALLOY/SS)	TK Corporation Daekyung Bend *** TOC (Dong Yang) *** PFC (Pusan Fitting) *** Viar Meccanica IML Raccordtubi Technoforge MEGA Tectubi (Allied) OMR Delcrote JD MGI Erne Fittings Scomark	SS, Duplex Fitting	Korea Korea Korea Korea Italy Italy Italy Italy Italy Italy Italy France France Austria UK	
Flange (CS/LTCS/CS ALLOY/SS)	GALPERTI MEGA MELESI METALFAR VIAR MECCANICA FAD Santafede KOFCO Se Yu Flange *** DELCROTE JD MGI W.Maass WGI Bebitz Linvic Scomark Flangefitt ULMA		Italy Italy Italy Italy Italy Italy Italy Korea Korea France France France, Germany Germany Germany UK UK UK Spain	
Stud bolt and nut	Chin Yuan Metal Seng Heng Engineering Crawford Hydrobolt Tri Star Bea		Singapore Singapore Singapore UK Singapore Italy	
Gasket	James Walker Econosto Lamons Vector Novus Flexitallic		UK, Thailand Netherland, Singapore USA, Thailand Norway Australia UK	
Hot Induction Bend	CHUNWOO		Korea	
Coating/ Lining	Daeryuk Metal *** Witsco Coating Korea Taejoo Synthetic	For pipe For pipe For fitting & bend coating For fitting & bend coating	Korea Korea Korea Korea	