

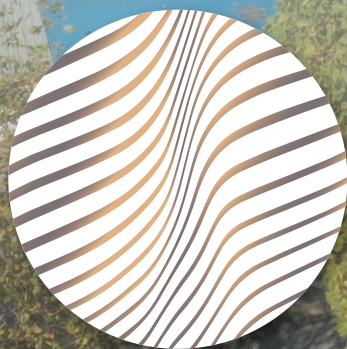
Cumi

SAMYANG

Copper- Nickel Pipe Fittings and
Flanges for Shipbuilding, Offshore
and Desalination Industry



SAMYANG METAL IND. CO.,LTD.



Welcome!

SAMYANG METAL, a company specializing in Cu and Cu-Ni alloys, has played a leading role in marine industrial development of South Korea for the past 40 years by supplying quality nonferrous products at lowest possible prices. We are sure that you will be quite satisfied with the excellent quality of our goods and services.

SAMYANG METAL is becoming a world's premier Cu and Cu-Ni alloy fitting and flange manufacturer by striving continual management innovation and technology development. We were selected as the Technology Innovation Business and Venture Business by the Korean government.

SAMYANG METAL is willing to take a role in domestic and international development as well as in the improvement of the quality of life by enhancing the standard of living and protecting our natural environment.

SAMYANG METAL appreciates your continued support and encouragement. May this brochure give you an overall idea about our company and our products.

We are ready to serve you with high quality Cu and Cu-Ni alloy you deserve.

SAMYANG METAL CEO

Seo Jin Min

HISTORY

2020-2014

- 2019** 07. PETRONAS Vendor Approved
- 12. Awarded Export Trophy at the 56th Korea Trade Day for Reaching Export Amount of 7 Million US Dollars
- 2018** 07. ADNOC Group Vendor Approved
- 2017** 03. MAZAGON Dock Vendor Approved
- 06. SAIPEM Vendor Approved
- 2016** 03. SAUDI ARAMCO : Quality Management System Approved
- 12. ADCO Vendor Approved
- 12. Awarded Export Trophy at the 53rd Korea Trade Day for Reaching Export Amount of 3 Million US Dollars
- 2014** 04. Vendor Approved by TAKREER, UAE
- 07. Vendor Approved by PETROBRAS, Brazil

2013-2010

- 2013** 03. Received Patent of Registration from the Office of Korea Intellectual Property (Flange Forging) Below 10"
- 06. Received Patent of Registration from the Office of Korea Intellectual Property (Flange Forging) Above 12"
- 11. Received Certificate of Trademark Registration from the Office of Korea Intellectual Property
- 2012** 01. ISO 14001 Approved by ABS & OHSAS 18001 Approved by ABS
- 12. Awarded Export Trophy at the 49th Korea Trade Day for Reaching Export Amount of 1 Million US Dollars
- 2011** 04. CE(PED) Approved by BV
- 09. BIG FOOT Project Vendor Approved
- 2010** 04. Approved by Achilles JQS
- 09. ISO 9001 : 2000 Revision
- 12. TOTAL CLOV Project Vendor Approved



2009-2002

- 2009 01. Selected Leading Company of Mechanical Parts & Material by Busan Metropolitan City
- 03. Won the Prize from National Tax Service of the Korean Government
- 2008 03. Selected Components & Materials Business by Ministry of Knowledge Economy of the Korean Government
- 2007 12. Won the prize from Ministry of Unification
- 2006 03. Selected Venture Business by the Small & Medium Business Administration of the Korean Government
- 07. Selected INNO-BIZ by the Small & Medium Business Administration of the Korean Government
- 2005 07. Established Samyang Metal Technology Laboratory
- 11. Design Approved ISO 9001:2000 by ABS Consulting
- 2004 02. Manufacture Approved by Shipping Classes DNV, ABS, BV
- 07. Change of President
- 2002 05. Expansion of Factory at Dadae-dong, Saha-gu, Busan - Main Factory

2000-1981

- 2000 02. Manufacture Approved by Shipping Class LR
- 1999 02. Changed name to Samyang Metal Ind. Co.,Ltd
- 1998 10. Won ISO 9001:2000
- 1995 02. Vendor Approved by Samsung Heavy Ind. Co.,Ltd Daewoo Shipbuilding & Marine Engineering , Co.,Ltd, and Hanjin Heavy Ind. Co.,Ltd
- 1994 04. Expansion of Factory at Hakjang-dong, Sasang-gu, Busan 2nd Factory
- 1990 03. Vendor Approved by ONGC of India
- 1990 03. Manufacture Approved by Shipping Class NK
- 1987 04. Vendor Approved by Hyundai Heavy Ind. Co.,Ltd
- 1986 12. Expansion of Factory at Janglim-dong, Saha-gu, Busan
- 1981 07. Established Samyang Metal Co. at Janglim-dong, Saha-gu, Busan





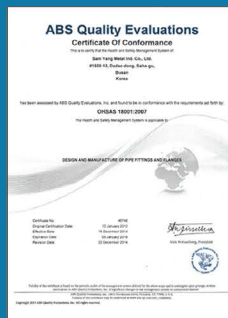
CERTIFICATE



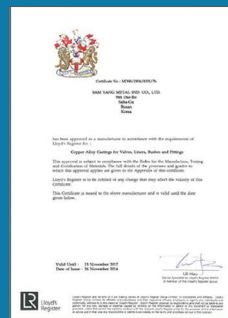
ARAMCO



ISO 14001



OHSAS 18001



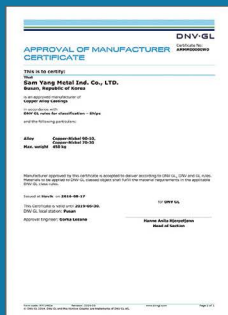
LR



BV



ISO 9001



DNV-GL



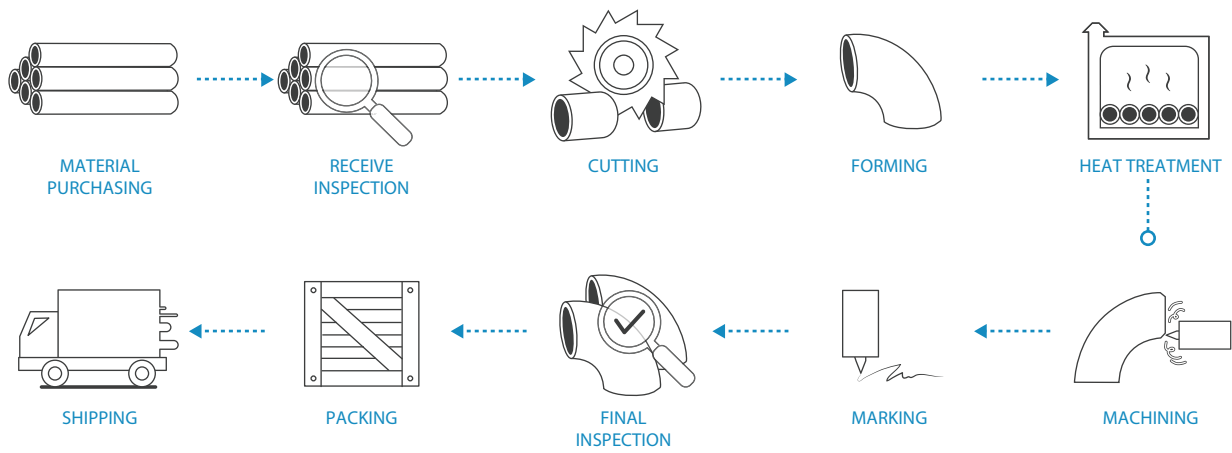
CE-PED



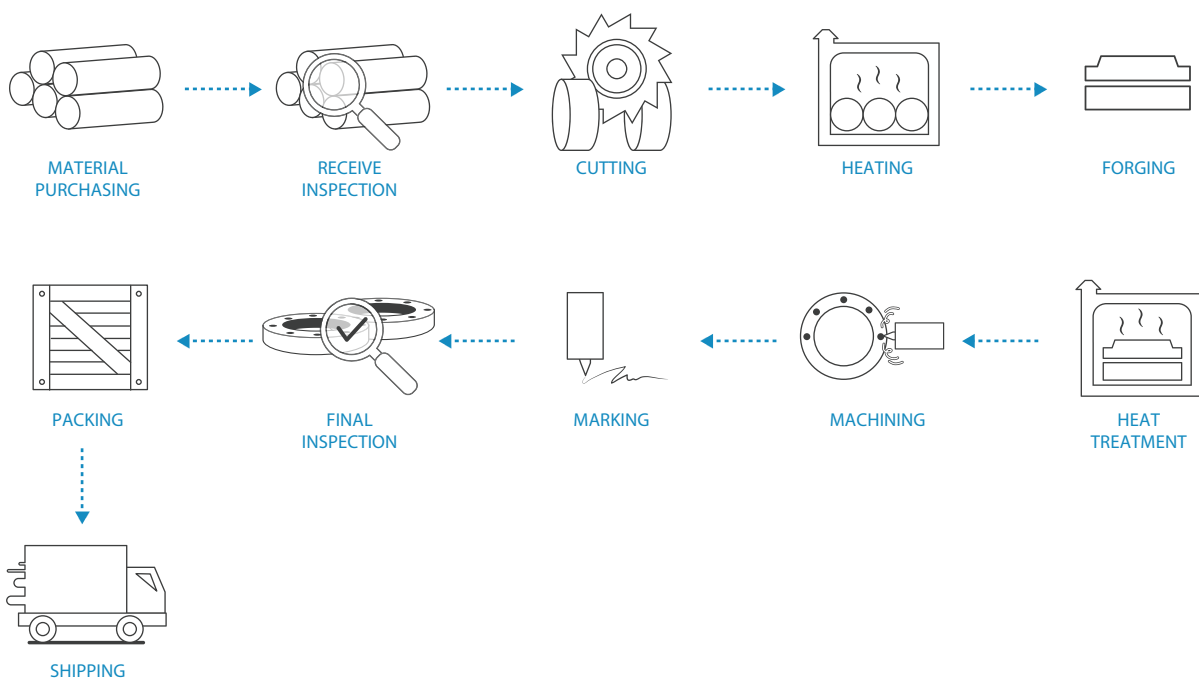
DUNS

WORK PROCESS

PIPE FITTING



FORGED FITTING & FLANGE



SALES RECORDS

On/Offshore

PROJECT NAME	OWNER	MATERIAL	YEAR	SIZE	POSITION
ANCHOR FPU	CHEVRON	Cu-Ni 90/10	2020~	20	Mexico
MARJAN INCREMENT PROGRAM PKG12	SAUDI ARAMCO	Cu-Ni 90/10	2020~	2	Saudi Arabia
Maintain Potential Facilities Offshore Long Term Agreement(LTA) - BERRI DOWNSTREAM PIPELINES	SAUDI ARAMCO	Cu-Ni 90/10	2020~	2	Saudi Arabia
MARJAN INCREMENT PROGRAM PKG06	SAUDI ARAMCO	Cu-Ni 90/10	2020~	2	Saudi Arabia
MJ FPSO	RELIANCE	Cu-Ni 90/10	2019~	18	India
KING'S QUAY	LLOG Exploration	Cu-Ni 90/10	2019	3	Gulf of Mexico
ARABIA CONDENSATE HANDLING AND SOUR WATER DISPOSAL FACILITY AT WAIST GAS PLANT	SAUDI ARAMCO	Cu-Ni 90/10	2019	2	Saudi Arabia
HARADAH & HAWIYAH FIELD GAS COMPRESSION	SAUDI ARAMCO	Cu-Ni 90/10	2019~	3	Saudi Arabia
TANAJIB UPGRADE PIER FACILITIES	SAUDI ARAMCO	Cu-Ni 90/10	2019	3	Saudi Arabia
HAWIYAH	SAUDI ARAMCO	Cu-Ni 90/10	2019	2	Saudi Arabia
UPGRADE WATER INJECTION SYSTEM - MANIFA PROJECT	SAUDI ARAMCO	Cu-Ni 90/10	2018	2	Saudi Arabia
REPLACE ELECTRICAL EQUIPMENT AT SOUTHERN AREA GOSPS KHURAI	SAUDI ARAMCO	Cu-Ni 90/10	2018~2019	3	Saudi Arabia
ONSHORE MAINTAIN POTENTIAL PROJECT CONSTRUCTION	SAUDI ARAMCO	Cu-Ni 90/10	2018~2019	2	Saudi Arabia
6282-2017/55388, Long Term Agreement(LTA) For Offshore Facilities	SAUDI ARAMCO	Cu-Ni 90/10	2018	3	Saudi Arabia
RAS TANURA REFINERY CLEAN FUELS PROJECT	SAUDI ARAMCO	Cu-Ni 90/10	2018~	4	Saudi Arabia
EXPAND ASPHALT PRODUCTION FACILITIES AT RTR	SAUDI ARAMCO	Cu-Ni 90/10	2017~2018	2	Saudi Arabia
SAFANIYA 4 DECK PROJECT	SAUDI ARAMCO	Cu-Ni 90/10	2017	4	Saudi Arabia
CORAL SOUTH DEVELOPMENT	ENI	Cu-Ni 90/10	2017	20	Mozambique
MAD DOG II	BP	Cu-Ni 90/10	2017~	16	Mexico
MARJAN & ZULUF	SAUDI ARAMCO	Cu-Ni 90/10	2017	4	Saudi Arabia
SAFANIYAH	SAUDI ARAMCO	Cu-Ni 90/10	2017	4	Saudi Arabia
(OOK) JIGCC Gasification Block Package 01 & 02	SAUDI ARAMCO	Cu-Ni 90/10	2017~	3	Saudi Arabia
JAZAN JIGCC UTILITIES PROJECT PKG05	SAUDI ARAMCO	Cu-Ni 90/10	2017~	1	Saudi Arabia
ETHANE DEEP RECOVERY PROJECT AT UTHMANIYAH GAS PLANT	SAUDI ARAMCO	Cu-Ni 90/10	2017~2020	2	Saudi Arabia
JAZAN REFINERY AND TERMINAL PROJECT PKG14	SAUDI ARAMCO	Cu-Ni 90/10	2017~	2	Saudi Arabia
NASR-II	ADMA-OPCO	Cu	2016~	1.1/2	UAE
BARONIA	PETRONAS	Cu-Ni 90/10	2016~	12	Malaysia
EGINA	TOTAL	Cu-Ni 90/10	2016~	12	Nigeria
KAOMBO	SAIPEM	Cu-Ni 90/10	2015~	12	Angola
ASTA HANSTEEN SPAR TOPSIDE	STATOIL	Cu-Ni 90/10	2015~	12	Norway
KAOMBO	TOTAL	Cu-Ni 90/10	2015~	12	Angola
BADAMYAR	TOTAL	Cu-Ni 90/10	2015~	8	Myanmar
BERGADING	HESS	Cu-Ni 90/10	2015~	16	Malaysia
AASTA HANSTEEN	ASA	Cu-Ni 90/10	2015~	3	Norway
ZADCO	PETROFAC	Cu-Ni 90/10	2014~	14	UAE
JANGKRIK FPU	ENI	Cu-Ni 90/10	2014~	12	Indonesia
FLNG2	PETRONAS	Cu-Ni 90/10	2014~	20	Malaysia
FCC, SWT & CT for CFP	KNPC	Cu-Ni 90/10	2014~	4	Kuwait
Sulphur Handling Facilities(REVAMP & NEW)	KNPC	Cu-Ni 90/10	2014~	4	Kuwait
MOHO	TOTAL	Cu-Ni 90/10	2013~	10	Congo
GOLIAT	ENI	Cu-Ni 90/10	2013~	2	Norway
HEBRON	EXXON-MOBIL	Cu-Ni 90/10	2013~	12	Canada
DONG(DONG-ENP)	DONG-ENP	Cu-Ni 90/10	2013~	47	North Sea
ICHTHYS	INPEX	Cu-Ni 90/10	2013~	12	Australia
ICHTHYS	INPEX	Cu-Ni 90/10	2013~	12	Australia
SHELL FLNG	SHELL	Cu-Ni 90/10	2012~	20	Australia
QUAD	BP	Cu-Ni 90/10	2012~	24	UK
090768 KNPC LPG TRAIN-4 at MAA REFINERY	KNPC	Cu-Ni 90/10	2012~	4	Kuwait

PROJECT NAME	OWNER	MATERIAL	YEAR	SIZE	POSITION
SHWE	DAEWOO INTERNATIONAL	Cu-Ni 90/10	2011~	16	Myanmar
BIG FOOT	CHEVRON	Cu-Ni 90/10	2011~	12	Mexico
CLOV FPSO	TOTAL	Cu-Ni 90/10	2011~	28	Angola
MARS-B	SHELL	Cu-Ni 90/10	2011~	12	Mexico
USAN FPSO	TOTAL	Cu-Ni 90/10	2009~	28	Nigeria
PAZFLOR FPSO	TOTAL	Cu-Ni 90/10	2008~	28	Angola
UMM-SHAIF INJECTION	ADMA-OPCO	Cu-Ni 90/10	2008~	24	UAE
TOMBUA LANDANA	CHEVRON	Cu-Ni 90/10	2007	10	Angola
TAKULA	CHEVRON	Cu-Ni 90/10	2007	2	Angola
SEEDRILL SEMI RIGH. 3501. H3019, H3020 & H3023	ODFJELL DEEPSEA ATLANTIC	Cu-Ni 90/10	2007	14	Norway
VASAI	LARSEN & TOUBRO	Cu-Ni 90/10	2007	16	India
IWPP	Marafiq	Cu-Ni 90/10	2007	8	Saudi Arabia
WEST EMINENCE	SEA DRILL	Cu-Ni 90/10	2006~2007	14	Norway
EGP 3A	CHEVRON	Cu-Ni 90/10	2006	12	Nigeria
YADANA	TOTAL	Cu-Ni 90/10	2006	12	Myanmar
WEST E-DRILL	SMEDVIG	Cu-Ni 90/10	2006	14	Norway
Shoaibapower and desalination plant	Shoaiba	Cu-Ni 90/10	2006	8	Saudi Arabia
RasLaffanPhase #1, #2, #3, #4	Qatar Petroleum	Cu-Ni 90/10	2006	4	Qatar
SoharWater & Power Plant Phase #1, #2, #3, #4	SoharPower	Cu-Ni 90/10	2006	4	Oman
SabiyaPhase #6, #7, #8	HPI	Cu-Ni 90/10	2006	20	Kuwait
AGBAMI	CHEVRON	Cu-Ni 90/10	2005~2006	25	Nigeria
RONG DOI	VIETNAM RONG DOI	Cu-Ni 90/10	2005	8	Vietnam
SABLE	EXXON-MOBIL	Cu	2005	3	Canada
ENFIELD FPSO	WOODSIDE	Cu-Ni 90/10	2005	18	Australia
GREATER PLUTONIO FPSO	BP	Cu-Ni 90/10	2004~2005	18	Angola
DALIA FPSO	TOTAL	Cu-Ni 90/10	2004	14	Angola
ONGC MSP	ONGC	Cu-Ni 90/10	2004	8	India
BAYU UNDAN GAS RECYCLE		Cu-Ni 90/10	2004	10	Australia
ATLANTIS FPSO	BP	Cu-Ni 90/10	2003~2004	24	Nigeria
KIZOMBA "B" TLP SWHP	EXXON-MOBIL	Cu-Ni 90/10	2003	16	Angola
MAGNOLIA	CONOCO PHILIPS	Cu-Ni 90/10	2003	18	USA
KIZOMBA "B" FPSO	EXXON-MOBIL	Cu-Ni 90/10	2003	16	Angola
KIZOMBA "A" FPSO	EXXON-MOBIL	Cu-Ni 90/10	2003	16	Angola
SANHA CONDENSATE	CHEVRON	Cu-Ni 90/10	2003	10	Angola
BP THUNDER HORSE	BP	Cu-Ni 90/10	2003	24	Mexico
SHELL NAKIKA	SHELL	Cu-Ni 90/10	2001	18	Mexico
AP MOLLER #1 & #2	AP MOLLER	Cu-Ni 90/10	2001	10	Denmark
AMENAM	ELF PETROLEUM	Cu-Ni 90/10	2001	10	Nigeria
SHELL BONGA	SHELL	Cu-Ni 90/10	2000	8	Nigeria

Legend

HHI	HYUNDAI HEAVY IND. CO.,LTD
SHI	SAMSUNG HEAVY IND.,LTD
DSME	DAEWOO SHIPBUILDING & MARINE ENGINEERING CO.,LTD
GS	GS ENGINEERING & CONSTRUCTION CO.,LTD
DHI	DOOSAN HEAVY IND. CO.,LTD

SALES RECORDS

Description of Major Project

PROJECT NAME : ANCHOR FPU
OWNER : CHEVRON

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1/2" ~ 20"	Cu-Ni 90/10	902
ELBOW	1/2" ~ 20"	Cu-Ni 90/10	2,397
TEE	-	Cu-Ni 90/10	-
REDUCER	1"	Cu-Ni 90/10	8
OTHERS	1/2" ~ 10"	Cu-Ni 90/10	302
TOTAL			3,609 pcs

PROJECT NAME : Maintain Potential Facilities Offshore LTA - BERRI DOWNSTREAM PIPELINES
OWNER : SAUDI ARAMCO

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1" ~ 4"	Cu-Ni 90/10	162
ELBOW	1" ~ 3"	Cu-Ni 90/10	179
TEE	1" ~ 4"	Cu-Ni 90/10	24
REDUCER	1.1/2" ~ 4"	Cu-Ni 90/10	14
OTHERS	1" ~ 4"	Cu-Ni 90/10	290
TOTAL			669 pcs

PROJECT NAME : MJ FPSO
OWNER : RELIANCE

ITEM	SIZE	MATERIAL	Q'TY(pcs)
PIPE	1/2" ~ 18"	Cu-Ni 90/10	3,367
TOTAL			3,367 pcs

PROJECT NAME : HARADAH & HAWIYAH FIELD GAS COMPRESSION
OWNER : SAUDI ARAMCO

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1/2" ~ 2"	Cu-Ni 90/10	1,914
ELBOW	1/2" ~ 2"	Cu-Ni 90/10	1,848
TEE	1/2" ~ 2"	Cu-Ni 90/10	720
REDUCER	-	Cu-Ni 90/10	-
OTHERS	3/4" ~ 2"	Cu-Ni 90/10	640
TOTAL			5,122 pcs

PROJECT NAME : KHURAI
OWNER : SAUDI ARAMCO

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1.1/2" ~ 2"	Cu-Ni 90/10	220
ELBOW	1" ~ 1.1/2"	Cu-Ni 90/10	1,250
TEE	1" ~ 1.1/2"	Cu-Ni 90/10	390
REDUCER	1/2" ~ 1.1/2"	Cu-Ni 90/10	655
OTHERS	1/2" ~ 1.1/2"	Cu-Ni 90/10	935
TOTAL			3,450 pcs

Description of Major Project

PROJECT NAME : JAZAN JIGCC UTILITIES PROJECT PKG05
OWNER : SAUDI ARAMCO

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	3/4" ~ 4"	Cu-Ni 90/10	3,394
ELBOW	1/2" ~ 2"	Cu-Ni 90/10	9,675
TEE	3/4" ~ 2"	Cu-Ni 90/10	3,444
REDUCER	-	Cu-Ni 90/10	-
OTHERS	1/2" ~ 2"	Cu-Ni 90/10	22,765
TOTAL			39,278 pcs

PROJECT NAME : ETHANE DEEP RECOVERY PROJECT AT UTHMANIYAH GAS PLANT
OWNER : SAUDI ARAMCO

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1" ~ 4"	Cu-Ni 90/10	761
ELBOW	1" ~ 3"	Cu-Ni 90/10	1,146
TEE	1" ~ 4"	Cu-Ni 90/10	263
REDUCER	1.1/2" ~ 4"	Cu-Ni 90/10	328
OTHERS	1" ~ 4"	Cu-Ni 90/10	1,644
TOTAL			4,142 pcs

PROJECT NAME : JAZAN REFINERY AND TERMINAL PROJECT PKG14
OWNER : SAUDI ARAMCO

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1" ~ 2"	Cu-Ni 90/10	938
ELBOW	3/4" ~ 2"	Cu-Ni 90/10	2,715
TEE	1" ~ 2"	Cu-Ni 90/10	1,647
REDUCER	1.1/2" ~ 2"	Cu-Ni 90/10	1,513
OTHERS	1/2" ~ 2"	Cu-Ni 90/10	5,111
TOTAL			11,924 pcs

PROJECT NAME : MOHO
OWNER : TOTAL

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1/2" ~ 28"	Cu-Ni 90/10	10,443
ELBOW	1/2" ~ 14"	Cu-Ni 90/10	11,849
TEE	1/2" ~ 14"	Cu-Ni 90/10	2,071
REDUCER	1/2" ~ 14"	Cu-Ni 90/10	300
OTHERS	1/2" ~ 14"	Cu-Ni 90/10	5,328
TOTAL			29,991 pcs

PROJECT NAME : HEBRON
OWNER : EXXON-MOBIL

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	3/4" ~ 10"	Cu-Ni 90/10	1,549
ELBOW	1" ~ 10"	Cu-Ni 90/10	7,410
TEE	1" ~ 10"	Cu-Ni 90/10	1,258
REDUCER	1" ~ 10"	Cu-Ni 90/10	692
OTHERS	1/2" ~ 10"	Cu-Ni 90/10	6,630
TOTAL			17,539 pcs

SALES RECORDS

Description of Major Project

PROJECT NAME : ICHTHYS
OWNER : INPEX

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	3/4" ~ 40"	Cu-Ni 90/10	1,542
ELBOW	1/2" ~ 12"	Cu-Ni 90/10	16,293
TEE	1/2" ~ 12"	Cu-Ni 90/10	2,457
REDUCER	1.1/2" ~ 12"	Cu-Ni 90/10	568
OTHERS	1/2" ~ 18"	Cu-Ni 90/10	20,023
TOTAL			40,883 pcs

PROJECT NAME : SHELL FLNG
OWNER : SHELL

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1/2" ~ 20"	Cu-Ni 90/10	1,489
ELBOW	1/2" ~ 20"	Cu-Ni 90/10	4,523
TEE	1/2" ~ 20"	Cu-Ni 90/10	633
REDUCER	3/4" ~ 20"	Cu-Ni 90/10	144
OTHERS	3/4" ~ 20"	Cu-Ni 90/10	668
TOTAL			7,457 pcs

PROJECT NAME : QUAD
OWNER : BP

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1/2" ~ 20"	Cu-Ni 90/10	1,848
ELBOW	1" ~ 20"	Cu-Ni 90/10	9,826
TEE	3/4" ~ 20"	Cu-Ni 90/10	1,414
REDUCER	1" ~ 20"	Cu-Ni 90/10	3,914
OTHERS	3/4" ~ 20"	Cu-Ni 90/10	7,866
TOTAL			24,868 pcs

PROJECT NAME : CLOV FPSO
OWNER : TOTAL

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1/2" ~ 40"	Cu-Ni 90/10	2,440
ELBOW	1/2" ~ 28"	Cu-Ni 90/10	3,133
TEE	1/2" ~ 28"	Cu-Ni 90/10	772
REDUCER	3/4" ~ 28"	Cu-Ni 90/10	251
OTHERS	1/2" ~ 28"	Cu-Ni 90/10	5,975
TOTAL			12,571 pcs

PROJECT NAME : SHWE
OWNER : DAEWOO INTERNATIONAL

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	3/4" ~ 16"	Cu-Ni 90/10	1,845
ELBOW	3/4" ~ 16"	Cu-Ni 90/10	1,553
TEE	3/4" ~ 16"	Cu-Ni 90/10	1,069
REDUCER	3" ~ 12"	Cu-Ni 90/10	706
OTHERS	3/4" ~ 16"	Cu-Ni 90/10	1,281
TOTAL			6,454 pcs

Description of Major Project

PROJECT NAME : USAN FPSO
OWNER : TOTAL

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1/2" ~ 36"	Cu-Ni 90/10	3,389
ELBOW	1/2" ~ 16"	Cu-Ni 90/10	5,026
TEE	3/4" ~ 14"	Cu-Ni 90/10	1,365
REDUCER	1" ~ 16"	Cu-Ni 90/10	397
OTHERS	3/4" ~ 18"	Cu-Ni 90/10	1,839
TOTAL			12,016 pcs

PROJECT NAME : PAZFLOR FPSO
OWNER : TOTAL

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1/2" ~ 24"	Cu-Ni 90/10	3,248
ELBOW	1/2" ~ 24"	Cu-Ni 90/10	10,584
TEE	1/2" ~ 24"	Cu-Ni 90/10	2,383
REDUCER	3/4" ~ 20"	Cu-Ni 90/10	1,175
OTHERS	1/2" ~ 30"	Cu-Ni 90/10	16,116
TOTAL			33,506 pcs

PROJECT NAME : UMM-SHAIF
OWNER : ADAM-OPCO

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	3/4" ~ 12"	Cu-Ni 90/10	1,857
ELBOW	1" ~ 10"	Cu-Ni 90/10	3,293
TEE	1" ~ 10"	Cu-Ni 90/10	1,215
REDUCER	1" ~ 10"	Cu-Ni 90/10	540
OTHERS	1/2" ~ 24"	Cu-Ni 90/10	592
TOTAL			7,497 pcs

PROJECT NAME : AGBAMI
OWNER : CHEVRON

ITEM	SIZE	MATERIAL	Q'TY(pcs)
FLANGE	1/2" ~ 14"	Cu-Ni 90/10	3,783
ELBOW	1/2" ~ 18"	Cu-Ni 90/10	9,382
TEE	1/2" ~ 10"	Cu-Ni 90/10	6,460
REDUCER	1/2" ~ 10"	Cu-Ni 90/10	2,938
OTHERS	1/2" ~ 18"	Cu-Ni 90/10	12,307
TOTAL			34,870 pcs

FLANGES

SOLID W/N, S/W, S/O TYPE FLANGES FOR COPPER NICKEL

SIZE 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
5", 6", 8", 10", 12", 14", 16", 18", 20", 22", 24", 28"

MATERIAL ASTM UNS C70600, EEMUA UNS 7060X
BS EN GR. CW352H, BS STD. CN102
DIN STD. 2.0872 & 2.1972
JIS STD. C7060

PRESSURE ASME 150 ~ 300#
EEMUA 16 ~ 20BAR
JIS 5 ~ 210K

DESIGN EEMUA PUB No.234
ASME B16.5
JIS B2240

APPLICATION SHIPBUILDING, ON SHORE, OFF SHORE
SPECIAL SHIP, DESALINATION, POWER PLANT



COMPOSITE W/N, S/O TYPE FLANGES FOR COPPER NICKEL

SIZE 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4", 5", 6",
8", 10", 12", 14", 16", 18", 20", 22", 24", 28", 32", 36"

MATERIAL ASTM UNS C70600, EEMUA UNS 7060X
BS EN GR. CW352H, BS STD. CN102
DIN STD. 2.0872 & 2.1972
JIS STD. C7060

PRESSURE ASME 150 ~ 300#, DIN 6 ~ 40BAR
EEMUA 16 ~ 20BAR, JIS 5 ~ 16K

DESIGN ASME B16.9, EEMUA PUB No.234
DIN 86037, JIS STANDARD

APPLICATION SHIPBUILDING, ON SHORE, OFF SHORE
SPECIAL SHIP, DESALINATION, POWER PLANT



FLANGES

SOLID S/W, S/O, S/B TYPE FLANGES FOR COPPER & COPPER ALLOY

SIZE	1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
MATERIAL	ASTM UNS C12200 ASTM UNS C68700 ASTM UNS C70600 ASTM UNS C83600 JIS H5120 CAC 201 & 202
PRESSURE	ASME 150 ~ 300#, DIN 6 ~ 40BAR EEMUA 16 ~ 20BAR, JIS 5 ~ 210K
DESIGN	ASME B16.5, EEMUA PUB No.234 DIN 86033, JIS B2240 & F7804
APPLICATION	SHIPBUILDING, ON SHORE, OFF SHORE SPECIAL SHIP, DESALINATION, POWER PLANT



COMPOSITE S/W, S/O, S/B TYPE FLANGES FOR COPPER & COPPER ALLOY

SIZE	2", 2.1/2", 3", 4"
MATERIAL	ASTM UNS C12200 ASTM UNS C68700 ASTM UNS C70600 ASTM UNS C83600 JIS H5120 CAC 201 & 202
PRESSURE	DIN 6 ~ 40BAR EEMUA 16 ~ 20BAR JIS 5 ~ 16K
DESIGN	EEMUA PUB No.234 DIN 86037 JIS F7804
APPLICATION	SHIPBUILDING, ON SHORE, OFF SHORE SPECIAL SHIP, DESALINATION, POWER PLANT



FITTINGS

BUTT WELDING TYPE FITTINGS FOR COPPER NICKEL

SIZE 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
5", 6", 8", 10", 12", 14", 16", 18", 20", 22", 24", 28", 32", 36"

MATERIAL ASTM UNS C70600, EEMUA UNS 7060X
BS EN GR. CW352H, BS STD. CN102
DIN STD. 2.0872 & 2.1972
JIS STD. C7060

PRESSURE ASME SCH. 10 ~ 160, EEMUA 16 ~ 20BAR
DIN 6 ~ 40BAR, JIS 5 ~ 10K, MIL-C 15726. 24679
MIL-T 16420

DESIGN ASME B16.9, DIN 86088 / 86089 / 86090
EEMUA PUB No. 234, JIS B2311 / 2312 / 2313
NAVSEA

APPLICATION SHIPBUILDING, ON SHORE, OFF SHORE
SPECIAL SHIP, DESALINATION, POWER PLANT



SOCKET WELDING TYPE FITTINGS FOR COPPER & COPPER ALLOY

SIZE 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"

MATERIAL ASTM UNS C70600, EEMUA UNS 7060X
BS EN GR. CW352H, BS STD. CN102
DIN STD. 2.0872 & 2.1972, JIS STD. C7060
ASTM UNS C12200, ASTM UNS C68700
ASTM UNS C83600, JIS STD. CAC 201 & 202
MIL-C 15726, 24676

PRESSURE ASME 3000#, ASME SCH. 10 ~ 160
DIN 6 ~ 40BAR, EEMUA 16 ~ 20
BAR, JIS 5 ~ 10K, CLASS 200, CLASS 400

DESIGN ASME B16.11, EEMUA PUB No.234
CUSTOMER REQUEST, NAVSEA

APPLICATION SHIPBUILDING, ON SHORE, OFF SHORE
SPECIAL SHIP, DESALINATION, POWER PLANT



FITTINGS

CAPILLARY FITTINGS FOR COPPER NICKEL & ALUMINUM BRASS

SIZE 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"

MATERIAL ASTM UNS C70600, EEMUA UNS 7060X
BS EN GR. CW352H, BS STD. CN102
DIN STD. 2.0872 & 2.1972
JIS STD. C7060

PRESSURE ASME 3000#, ASME SCH. 10 ~ 160
DIN 6 ~ 40BAR, EEMUA 16 ~ 20BAR
JIS 5 ~ 10K

DESIGN ASME B16.11
EEMUA PUB No.234

APPLICATION SHIPBUILDING, ON SHORE, OFF SHORE
SPECIAL SHIP, DESALINATION, POWER PLANT



BELLEND END FITTINGS FOR COPPER NICKEL

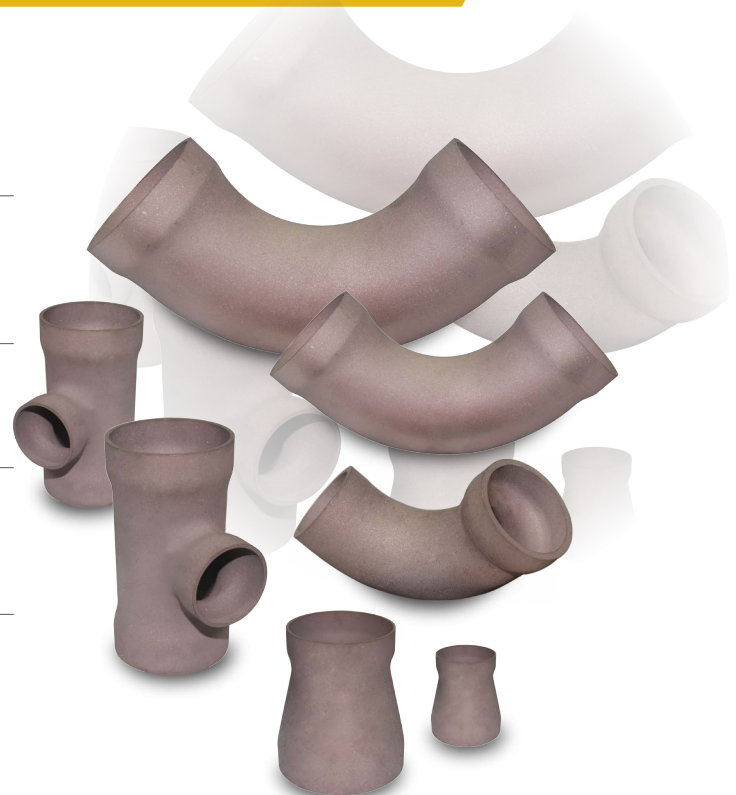
SIZE 1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2"
2.1/2", 3", 4", 5", 6", 8", 10", 12"

MATERIAL MIL-T-16420, ASTM B 466, UNS C70600

PRESSURE Class 200

DESIGN NAVSEA, MSS SP-119-2003
MSS SP-119-2010

APPLICATION SHIPBUILDING, ON SHORE, OFF SHORE
SPECIAL SHIP, DESALINATION, POWER PLANT



FITTINGS

MISCELLANEOUS FOR COPPER NICKEL

SIZE 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"

MATERIAL ASTM UNS C70600, EEMUA UNS 7060X
BS EN GR. CW352H, BS STD. CN102
DIN STD. 2.0872 & 2.1972
JIS STD. C7060

PRESSURE ASME 3000#
EEMUA 16 ~ 20BAR

DESIGN ASME B16.11
EEMUA PUB No.234
CUSTOMER REQUEST

APPLICATION SHIPBUILDING, ON SHORE, OFF SHORE
SPECIAL SHIP, DESALINATION, POWER PLANT



BAR STOCK

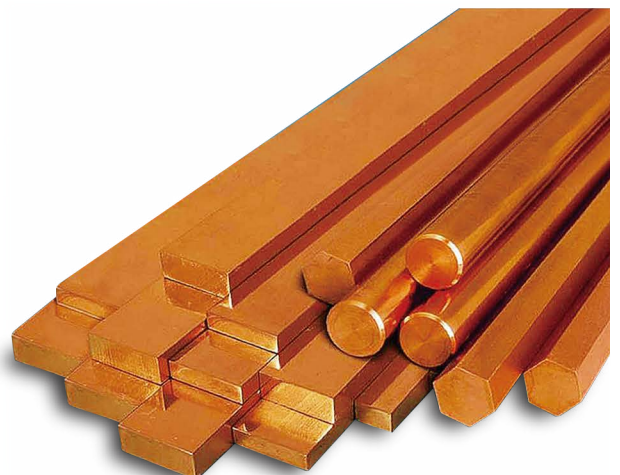
BAR STOCK

SIZE OD15 ~ 210MM

MATERIAL ASTM UNS C70600, EEMUA UNS 7060X

DESIGN ASTM B151
EEMUA 145

APPLICATION FORGING STOCK



PIPE & TUBE

COPPER NICKEL PIPE

SIZE 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4", 5"
6", 8", 10", 12", 14"16" ~ 28"(WELDED)

MATERIAL ASTM UNS C70600, EEMUA UNS 7060X
BS EN GR. CW352H, BS STD. CN102
DIN STD. 2.0872 & 2.1972
JIS STD. C7060, MIL-T 16420

PRESSURE ASME SCH. 10 ~ 160, EEMUA 16 ~ 20BAR
DIN 6 ~ 40 BAR, JIS 5 ~ 10K, CLASS 200

DESIGN ASTM B466, BS 2871
EEMUA PUB No. 144, EN 12449
DIN 86019, JIS H3300, NAVSEA

APPLICATION SHIPBUILDING, ON SHORE, OFF SHORE
SPECIAL SHIP, DESALINATION, POWER PLANT



COPPER PIPE & BRASS PIPE & ALUMINIUM BRASS PIPE

SIZE 1/2", 3/4", 1", 1.1/4", 1.1/2", 2",
2.1/2", 3", 4", 5"

MATERIAL ASTM UNS C12200
ASTM UNS C68700
ASTM UNS C46400

PRESSURE ASTM K / M / L TYPE
JIS 10K

DESIGN ASTM B 88 & B111
EN12735-1
JIS H3300

APPLICATION SHIPBUILDING, ON SHORE, OFF SHORE
SPECIAL SHIP, DESALINATION, POWER PLANT



PRODUCT LIST

PIPES & TUBES

PLATE & BAR STOCK

FITTINGS

BUTT WELDING TYPE FITTINGS

SOCKET WELDING TYPE FITTINGS

CAPILLARY FITTINGS

BELLED END FITTINGS

MISCELLANEOUS FOR COPPER NICKEL

FLANGES

COMPOSITE TYPE FLANGES(Cu-Ni)

SOLID TYPE FLANGES(Cu-Ni)

COMPOSITE TYPE FLANGES(All Copper Alloy)

SOLID TYPE FLANGES(All Copper Alloy)

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