

STAR PLATE



STAR PLATE
HIGH QUALITY PRODUCT



PT. YONTOMO SUKSES ABADI

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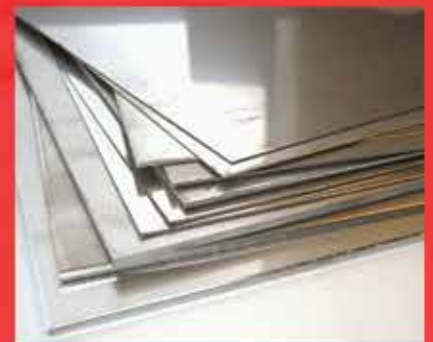


PT. Yontomo Sukses Abadi was established in 1999 and grew to be one of leading companies and have focus in welding industry, i.e. welding consumables supply, welding machine and automation, welding machine accessories and welding service workshop. Now, PT. Yontomo Sukses Abadi has expanded in steel trading / distribution which has vision to be the best partner to fulfill your requirement in supplying various range of steels.

OUR MAIN PRODUCT

- **STAR-C** : Special plate for corrosion, oxidation, abrasion & corrosion characteristics.
- **STAR-D** : Special plate for impact and abrasion resistance.
- **STAR-X** : Special plate for ultra high tensile strength.
- **STAR-O** : Overlay plate for Extreme abrasion resistance, abrasion resistance in high temperature & corrosion conditions.

Our products have been applied in Mining industries, Cement Industries, Steel Industries, Power Plants, Construction-earth moving and metallurgy industries. The best support and assistance shall be our solution to guarantee your satisfaction.



HIGH QUALITY PRODUCT

STAR-C

STAR-C is high quality of stainless steel, which the alloy is well known for its multi-purpose applications; good corrosion resistance, high temperature, high oxidation, good creep resistance, good abrasive resistance and all grades can be easily welded.

The alloy can be also used in slightly oxidizing atmosphere, nitriding, cementing conditions as well as thermal cycling. Our products for STAR-C:

- A. STAR-C 304/304L : Austenitic stainless steel containing 18%Cr, 8%Ni additions and lower carbon content. It has excellent combination of corrosion resistance and easily fabrication.
- B. STAR-C 316/316L : Austenitic stainless steel containing 17% Cr, 12% Ni, 2,5% Mo. its increases general corrosion resistance, improves resistance to pitting corrosion from chloride ion solution, and provides increased strength at elevated temperatures.
- C. STAR-C 310 : Austenitic stainless steel containing 25%Cr and 20%Ni additions. Its design to high temperature application up to 1100° C in oxidizing atmospheres.
- D. STAR-C 410 : Martensitic stainless steel containing 13%Cr. It has excellent corrosion resistance plus high strength and hardness.

Chemical Composition

GRADE	STANDARDS (ASTM)	CHEMICAL COMPOSITION (%)							
		C	Si	Mn	P	S	Cr	Ni	Mo
STAR-C 304/304L	A240 - 304/304L	0.03	0.75	2.0	0.045	0.03	18 ~ 20	8 ~ 12	-
STAR-C 316/316L	A240 - 316/316L	0.03	0.75	2.0	0.045	0.03	16 ~ 18	10 ~ 14	2 ~ 3
STAR-C 310	A240 - 310	0.08	1.50	2.0	0.045	0.03	24 ~ 26	19 ~ 22	-
STAR-C 410	A240 - 410	0.15	1.00	1.0	0.040	0.03	11.5 ~ 13.5	0.75	-

Notes : Single values are maximum.

Mechanical Properties

GRADE	STANDARDS (ASTM)	MECHANICAL PROPERTIES			
		YS (MPa)	UTS (MPa)	EL (%)	HB
STAR-C 304/304L	A240 - 340/304L	172	483	40	183
STAR-C 316/316L	A240 - 316/316L	172	483	40	217
STAR-C 310	A240 - 310	207	517	40	217
STAR-C 410	A240 - 410	207	448	20	217

APPLICATIONS:

- Chemical equipment
- Coal hopper lining
- Cryogenic Vessels
- Evaporators
- Pulp & paper Industry
- Pressure vessels
- Valves
- Food Processing Equipment

Notes : Single values are minimum.



HIGH QUALITY PRODUCT

STAR-D

STAR-D is grade of high quality special material, which is used in mining machinery, engineering machinery, power plant, cement plant, construction-earth moving equipment and metallurgy industry. It has good combination physical properties of resistant to abrasion wear, good toughness, high hardness and high strength.

Chemical Composition

GRADE	CHEMICAL COMPOSITION (%)								
	C	Si	Mn	P	S	Cr	Mo	B	Ceq
STAR-D 360S	0.20	0.80	1.70	0.025	0.015	1.50	0.5	0.005	0.67
STAR-D 400S	0.23	0.80	1.70	0.025	0.015	1.50	0.5	0.005	0.70
STAR-D 450S	0.26	0.80	1.70	0.025	0.015	1.50	0.5	0.005	0.73
STAR-D 500S	0.30	0.80	1.70	0.025	0.015	1.50	0.5	0.005	0.77

Notes : Single values are maximum.

Mechanical Properties

GRADE	MECHANICAL PROPERTIES				
	YS (MPa)	UTS (MPa)	EL(%)	Surface Hardness (HB)	CIV (J) at -40 °C
STAR-D 360S	800	1000	12	300 ~ 400	30
STAR-D 400S	1000	1250	10	360 ~ 440	30
STAR-D 450S	1200	1450	8	420 ~ 500	30
STAR-D 500S	1250	1600	8	450 ~ 540	30

Notes : Single values are minimum

APPLICATIONS:

- Mining dump truck
- Excavator
- Crusher
- Reclaimer
- Silo
- Paver



HIGH QUALITY PRODUCT

STAR-X

STAR-X is a special low alloy structural with minimum yield strength of 650 ~ 700 N/mm² depending on thickness. It has excellent notch toughness, good weldability and formability with featuring low carbon.



STANDARD

- Surface quality : EN 10163-2 Class A1
- Heavy plates : EN 10029
- Thickness tolerances for plates : EN 10029 Class A
- Flatness : EN 10029 Class N

APPLICATIONS:

- Machine building
- Steel constructions
- Framework structures
- Lifting and mobile equipment
- Vehicles and transport equipment
- Passenger Bridges

Chemical Composition

GRADE	CHEMICAL COMPOSITION (%)										
	C	Si	Mn	P	S	Cr	Cu	Ni	Mo	B	Ceq
STAR-X 700S	0.20	0.60	1.60	0.020	0.010	0.80	0.30	2	0.70	0.005	0.58

Notes : Single values are maximum.

Mechanical Properties

GRADE	MECHANICAL PROPERTIES			
	YS (MPa)	UTS (MPa)	El (%)	CIV (J) at -40°C
STAR-X 700S	650	770 ~ 940	14	69

Notes : Single values are minimum.

STAR-O

STAR-O is high-chromium and high-carbon alloy overlay steel plate. It has excellent abrasion resistance with corrosion, abrasion resistance with high temperature, and low impact stress. Material for the plate are all weldable steels, structural steel and high alloyed temperature. Layer thickness for overlay is 3 to 10 mm.

1. STAR-O 835S

For high abrasive wear at medium corrosion and low impact.

Its containing 4.5%C and 28%Cr in filler material. The result hardness approx. 700 HV ; 60 HRC

2. STAR-O 850S

For applications requiring good abrasion resistance along with high corrosion and low impact resistance.

Its containing 4.5%C, 28%Cr, 1%Mo, 3%Ni in filler material. The result hardness approx. 420 ~ 450 HV.

3. STAR-O 865S

For high abrasive wear and high temperature on average corrosion and low impact stress.

Its containing 5.5%C, 21%Cr, 2%Mo, 3%Nb and addition W & V in filler material.

The result hardness approx. 820 HV

OVERLAY THICKNESS

Base Material (mm)	Overlay (mm)	Total (mm)
3	3	6
5	3	8
6	4	10
6	6	12
8	5	13
10	10	20

APPLICATIONS:

- Steel Industry
- Cement Industry
- Power Station
- Sand and gravel Industry
- Chemical Industry
- Concrete Industry
- Petrochemical Industry
- Metallurgical Plants



1500X3000mm or 2000X3000mm or tailor made size and forms to meet your requirement



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