



Product : SM490 YA
 Kategori : High Strength Structural Steel Plates
 Standard: JIS G3106
 Grades : SM490 YA, SM490 YB, SM490A, SM490B

Related Grade:

SM490YA | SM490C | SM400A | SM400B | SM400C | SM520C | SM570

Equivalent Grade:

ASTM A572 Grade 50 | GB Q345B | BS EN S355 | DIN 17100 St52-3 |

Characteristic:

Steel plate SM490YA is a low carbon, high strength steel. Easy for weld and good cold forming properties. SM490YA steel plates usual supplied in normalized or control rolled delivery condition.

Availability:

Thickness: 6 - 30 mm
 Size: 1524 x 6096 mm or 5 x 20 ft
 1828.8 x 6096 mm or 6 x 20 ft

Chemical Composition (%)

C	Si	Mn	P	S	Nb	Cu	Cr	Ni	Mo
0.18	0.55	1.60	0.035	0.035	0.036	0.05	0.02	0.01	0.001
Max	Max	Max	Max	Max					

Note: other alloy elements may be added as necessary (V, Al and Ti)

<http://metal.beyond-steel.com>

Tel : +62-021-3293 5972 | Fax: +62-021-8837 6742

E-mail: sales@beyond-steel.com

Alamat: Jl.Permata 8/14 Ds.Karang Satria, Tambun Utara Bekasi 17568

Product Thickness	Size (Ft)		Weight (Kg)
Plat SM490 YA 8 mm	5' x 20'	=	583
Plat SM490 YA 10 mm	5' x 20'	=	729
Plat SM490 YA 12 mm	5' x 20'	=	876
Plat SM490 YA 16 mm	5' x 20'	=	1167
Plat SM490 YA 20 mm	5' x 20'	=	1487
Plat SM490 YA 25 mm	5' x 20'	=	1858
Plat SM490 YA 30 mm	5' x 20'	=	2230

Equivalent By Country

Europe	Belgium	France	Italy	Sweden	India	USA	U.K
S 355 JR	AE 355 B	E 36-2	Fe 510 B	SS21,32,01	IS 961	A633 gr A,C,D	50 B

Mechanical Properties

Thickness	Yield Strength	Tensile Strength	Elongation
mm	Min Mpa	Mpa	Min %
$t \leq 16$	365	490-610	15
$16 \leq t \leq 25$	325-355	490-610	21

Application:

Machinery parts, mobile equipment, crane, boom, chassis, buildings, bridges and most structural activities.

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