



SIN THAI SPECIAL STEEL CO., LTD.

Moo 17 , Taeparak Road , T. Bangsaothong Dist.Bangsaothong , Samutprakarn 10540 Thaila

Tel : (662) 330 – 3101 , 705 – 0930 , 315-1466 Fax : (662) 315 – 1354 , (662) 705-0932

http :// www.sinthai.co.th , e-mail : sales@sinthai.co.th



DIN 17100 ST 52-3 N HIGH TENSILE PLATE

NEAREST EQUIVALENT : BS4360 Gr50 ASTM A572-50 JIS G3106 SM50

CHARACTERISTIC

Steel grade ST 52-3 N is a low carbon, high strength structural steel which can be readily welded to other weldable steel. With its low carbon equivalent, it possesses good cold-forming properties. The plate is supplied in normalized or control-rolled condition .

APPLICATION

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

CHEMICAL COMPOSITION (%)

C	Si	Mn	P	S	Nb	Al	N
max 0.20	0.15 - 0.50	max 1.60	max 0.035	max 0.035	0.02 - 0.04	min 0.02	max 0.009

Note : If steel is grain-refined with Al, N = max 0.015 %.

MECHANICAL PROPERTIES

Thickness (mm)	Yield Strength R_{eH} min (N/mm²)	Tensile Strength R_m min (N/mm²)	Elongation A_5 min (%)	Impact Values Charpy-V-Notch Longitudinal	
				$t \geq 12mm$	$t < 12mm$
10 - 60	350	510	22 %	27 Joules	20 Joules
> 60 - 100	330	510	22 %	at - 20 ° C	at - 20 ° C

DIMENSIONS

Thickness : 1.5mm - 320mm

Size : 4ft x 8ft, 5ft x 10ft, 5ft x 20ft, 6ft x 20ft, 8ft x 20ft, 8ft x 30ft, 10 x 20ft,
10 x 30ft, 10 x 40ft

For more information, please contact Sales Department or visit our website <http://www.sinthai.co.th>
e-mail : sales@sinthai.co.th