steel warehouse
The Trusted Solution

SWARQT

SW**AR**QT is a unique product designed to take advantage of the benefits related to plate from coil and the proven technical flexibility of the quench and tempering process. This combination will achieve superior properties and economic advantages for your advanced fabrications.

Hardness Level	**HBN**
400	370 - 430
450	420 - 480
500*	470 - 530

*** subject to accumulation**

MINIMUM MECHANICAL PROPERTIES

Direction	Yield Strength (ksi)
Transverse & Longitudinal	200

CHEMICAL COMPOSITION *(MAXIMUMS UNLESS OTHERWISE NOTED)*

C	Mn	P	S	Si	Al
0.25	1.65	0.02	0.010	0.35	>0.015

IMPACT PROPERTIES *(TYPICAL)*

Direction	Test Temperature F & C	Ft-lbs (min) per ASTM A370
Longitudinal	-40	20

BENDABILITY *(TYPICAL)*

Direction	0.375 ≤ t < 0.500 inches	0.500 ≤ t ≤ 1.000 inches
Longitudinal	4.5 t	5.0 t

CARBON EQUIVALENTS *(TYPICAL)*

CEV IIW	CEV AWS
0.47	0.52

CEV_{iiw}=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15

CEV_{AWS} =C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15+(Si)/6

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