

This page is mainly introduced the SPPV 410 /SPPV 42 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SPPV 410 /SPPV 42, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## **Datasheet for Steel Grades Structure Steel SPPV**410 /SPPV 42

	SPPV 410 /SPPV 42 Standard Number:				
ITEM	Standard Number	Descriptions			

SPPV 410 /SPPV 42 Chemical composition(mass fraction)(wt.%)									
	Chemical Min.(%)				Max.(%)				
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
0.20	0.15-0.75	1.60	0.030	0.030					
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

Pressure vessel with carbon steel plate steel grade

SPPV 41	0 /SPPV 42 Physical Pr	2 Physical Properties		
Tensile strength	11 <mark>5-234</mark>	σb/MPa		
Yield Strength	23	σ 0.2 ≥/MPa		
Elongation	65	δ5≥ (%)		
Ψ	<del>-</del>	ψ≥ (%)		
Akv	<del>-</del>	Akv≥/J		
HBS	123-321	-		
HRC	30	-		



SPPV 410 /SPPV 42 Mechanical Properties					
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			
Elongation	56	δ5≥(%)			
Ψ	-	ψ≥(%)			
Akv	-	Akv≥/J			
HBS	235-268	-			
HRC	30	-			

SPPV 410 /SPPV 42 Heat Treatment Regime						
Annealing Quenching		Tempering Normalizing		Q & T		
√	√	√	√	√		

SPPV 410 /SPPV 42 Range of products						
Product type	Products	Dimension	Processes	Deliver Status		
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID- WASHED, Shot Blasting		
Steel Bar	Round Bar, Flat Bar, Square Bar	Ф8-1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,		
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot- Rolled	Annealed, Solution and Aging, Q+T, ACID- WASHED, Shot Blasting		
Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID- WASHED		

## We can produce Structure Steel the specifications follows: