

# PHOENIX BLAU



Classifications		Operating data	
EN ISO 2560-A	AWS A5.1 / SFA-5.1	Welding positions	Polarity
E 42 0 RC 1 1	E6013		

Typical chemical composition, all weld metal, wt. %			
	C	Si	Mn
	0.09	0.35	0.5

Mechanical properties, all weld metal (single values typical)						
	Condition	Yield strength R <sub>p0.2%</sub> MPa	Tensile strength R <sub>m</sub> MPa	Elongation A (L <sub>0</sub> =5d <sub>0</sub> ) %	CVN Impact toughness ISO-V KV J	
					20 °C	0 °C
	As welded	440 (>= 420)	540 (>= 500 – 640)	22 (>= 20)	80	55 (≥ 47)

Steels to be welded	
EN	ASTM
S235JRG2 - S355J2; GS-38; GS-45; St35; St45; St35.8; boiler steels P235GH, P265GH, P295GH; shipbuilding steels corresp. to app.-grade 2; fine grained structural steels up to P355N; weldable ribbed reinforcing steel bars.	ASTM A36 and A53 Gr. all; A106 Gr. A, B, C; A135 Gr. A, B; A283 Gr. A, B, C, D; A366; A285 Gr. A, B, C; A500 Gr. A, B, C; A570 Gr. 30, 33, 36, 40, 45; A607 Gr. 45; A668 Gr. A, B; A907 Gr. 30, 33, 36, 40; A935 Gr. 45; A936 Gr. 50; API 5 L Gr. B, X42-X52

Approvals
TÜV (00425), DB (10.014.86), ABS, BV, LR, DNV GL, CE

Carton Packaging	
	Weight: ~ 4.1 kg  Diameter 2.0 x 250 mm 2.5 x 250 mm 2.5 x 350 mm 3.2 x 350 mm 4.0 x 350 mm 4.0 x 450 mm 5.0 x 450 mm

