

BÖHLER CN 22/9 N-UP // BB 202

SAW wire/flux combination, high-alloyed, highly corrosion resistant

Classification							
SAW solid wire:	SAW flux:						
EN ISO 14343-A	EN ISO 14343-B	AWS A5.9	EN ISO 14174				
S 22 9 3 N L	SS2209	ER2209	SA FB 2 DC				

Characteristics and typical fields of application

Sub-arc wire/flux combination for welding the Duplex stainless steels 1.4462 / S31803.

Smooth beads, easy slag removal without any slag residues and good welding characteristics even for fillet welds are very much appreciated by users.

Suitable for service temperatures from -40 °C to +250 °C. The pitting index PRE_N is > 35.

BÖHLER BB 202 is a fluoride-basic agglomerated flux. For CVN requirements lower than –40 °C we recommend our flux BÖHLER BB 203. For information regarding the sub-arc welding fluxes BÖHLER BB 202 and BB 203 see our detailed data sheets.

Base materials

Same-alloyed duplex stainless steels, as well as similar-alloyed, ferritic-austenitic steels with higher tensile strength

- 1.4462 X2CrNiMoN22-5-3, 1.4362 X2CrNiN23-4,
- 1.4462 X2CrNiMoN22-5-3 with 1.4583 X10CrNiMoNb18-12

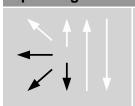
or other stainless steel grades

UNS S31803, S32205

Typical analysis of the wire and of all-weld metal (wt%)								
	С	Si	Mn	Cr	Ni	Мо	N	PRE_N
SAW wire wt-%	≤ 0.015	0.40	1.6	22.8	8.8	3.2	0.15	36.0
all-weld metal %	0.013	0.50	1.1	22.5	8.8	3.2	0.14	35.0

mechanical properties of all-weld metal							
Condition	Yield strength R _{p0.2}	Tensile strength R _m	Elongation A (L ₀ =5d ₀)	Impact work ISO-V KV J			
	MPa	MPa	%	+20 °C	−40 °C		
u	≥ 550	≥ 750	≥ 27	≥ 100	≥ 32		
u untreated	, as welded						

Operating data



Polarity: DC (+) / DC (-)

Redrying of sub-arc flux: 300 - 350 °C, 2 - 10 h

ø (mm) 3.0

Approvals

TÜV (09173.), ABS (ER 2209), DNV (X), GL (4462 TM), LR (X), CE