## Shield-Bright 309MoL

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Flux CORED WIRES

## **Description and Application**

 Shield-Bright 309MoL was designed for welding type 316 clad steels on the first pass in cladding steels or for welding dissimilar metals such as molybdenum-containing austenitic stainless steels to carbon steels. It is used in paper mills and in power plants to give greater corrosion resistance. This wire performs best when used out-of-position shielded with either Ar/CO<sub>2</sub> or 100%CO<sub>2</sub>.

Shielding Gas: 100%CO<sub>2</sub> or 75%Ar/25%CO<sub>2</sub>

## Typical Mechanical Properties of All Weld Metal

Shielding gas	Yield Point N/mm²{kgf/mm²}	Tensile Strength N/mm²{kgf/mm²}	Elongation (%)		
100%CO <sub>2</sub>	550 {56}	715 {73}	35		
75%Ar/25%CO <sub>2</sub>	570 {58}	750 {76}	30		

## Typical Undiluted Weld Metal Analysis %

Shielding gas	С	Mn	Si	Р	S	Cr	Ni	Мо	Ferrite No.
100%CO <sub>2</sub>	0.029	1.0	0.70	0.024	0.008	22.90	12.7	2.60	17~27
75%Ar/25%CO <sub>2</sub>	0.030	1.2	0.75	0.024	0.008	23.5	13.0	2.60	17~27

Approvals DNV. JIS