

## 904L

<b>CATEGORY</b>	GMAW-GTAW Solid wires									
<b>TYPE</b>	Solid stainless steel austenitic filler metal with excellent corrosion resistance									
<b>APPLICATIONS</b>	Tanks and process vessels, Piping systems, agitators, rotors, cast pumps and valves for use in the fertilizer, phosphoric, sulphuric and acetic acid plants									
<b>PROPERTIES</b>	The Ceweld 904L is used for welding materials of similar chemical composition which are used for fabrication of equipment and vessels for handling of sulfuric acid and many chloride containing media. This filler metal may also find applications for joining Type 317L material where improved corrosion resistance in specific media is needed. In order to reduce the propensity for fissuring and hot cracking, the low melting constituents such as carbon, silicon, and phosphorus are controlled to lower levels in this alloy.									
<b>CLASSIFICATION</b>	AWS	A 5.9: ER 385								
	EN ISO	14343-A: G 20 25 5 Cu L 14343-B: SS385								
	DIN: W.Nr.	1.4539								
	DIN	8556: 20 25 5 L Cu								
<b>SUITABLE FOR</b>	W.Nrs: 1.4500, 1.4505, 1.4506, 1.4531, 1.4536, 1.4539, 1.4573, 1.4585, 1.4586, 4 NS N 08904 1.4539, 1.4537, 1.4519, 1.4505, UNS N08904, S31726, X1NiCrMoCu 25-20-5, X1CrNiMoCuN 25-25-5, X4NiCrMoCuNb 20-18-2, Uranus B6									
<b>APPROVALS</b>	CE approved									
<b>WELDING POSITIONS:</b>										
<b>WELD DEPOSIT WEIGHT (TYPICAL) %</b>										
	C	Mn	Si	Cr	Ni	Mo	N	Cu	P	S
	0.019	2.05	0.35	20.5	25.1	4.6	0.04	1.6	0.014	0.015
<b>TYPICAL WELD METAL PROPERTIES</b>										
	Heat Treatment	R <sub>p0.2</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> (N/mm <sup>2</sup> )	A <sub>5</sub> (%)	Impact Energy (J) ISO-V			Hardness HRc / HV		
	AW	>380	>560	>35	+20°C	-40°C	-60°C			
	AW: as welded									
<b>WELDING PARAMETERS / PACKING</b>										
	Welding Parameters			Packing						
D (mm)	Voltage (V)	Current (A) DC+		spool type		kg / spool / Drum		kg / pallet		
0.8	16-22	50-140		S-300 / Drum		15 / 250		1080 / 1000		
1.0	16-24	80-190		S-300 / Drum		15 / 250		1080 / 1000		
1.2	20-28	180-280		S-300 / Drum		15 / 250		1080 / 1000		
<b>REDRYING TEMPERATURE</b>	Not required									
<b>GAS ACC. EN ISO 14175:</b>	M12, M13									