

## METAL TECHNOLOGY-CANTERBO GMBH

Welding alloys

Special alloys

## MT-904 L

## 1.4519

TIG/MIG welding wire of fully austenitic, copper-containing chrome-nickelmolybdenum-steel with high molybenum and very low carbon content, for welding high-alloy steels which are strongly corrosion resistant when exposed to reducing media. Weld metal suitable for temperatures up to +350°C.

Standard designation	Material No.			1.4519				
5	AWS/ASME SFA-5.9			ER 385				
	EN ISO	14343-A		G/W 20 2			5 5 Cu L	
Main base metals	Exceptionally corrosion-proof steels/cast steels e.g. 1.4500 G-X 7 NiCrMoCuNb 25 20 1.4536 G-X 2NiCrMoCu							
					iCrMoCuN 25 20			
	1.4505 X 5 NiCrMoCuNb 20 18 1.4506 X 5 NiCrMoCuTi 20 18			1.4539 1.4585	X 2 NiCrMoCu 25 20 5 G-X 7 NiCrMoCuNb 18 18			
Mechanical properties	Welding process			TIG MIG			G	
of all – weld – metal	Gas shield		11		M12			
(typical values)	Thermal treatmen	t		untreated		untreated		
	Test temperature	[°C]	-	- 196°C	+20°C	-196°C		
	0,2%-yield strength		MPa	≥320		≥320		
	Tensile strength	R <sub>m</sub>	MPa	≥510		≥510		
	Elongation	A <sub>5</sub>	[%]	≥25		≥25		
	Impact strength	Av	[J]	LNB	LNB	LNB	LNB	
Average chemical	C Si	Mn	(	Cr	Мо	Ni	Cu	
composition	0,03 1,0	1,0-4,	-			4,0-27,0	1,0-2,0	
of all - weld – metal (%)	0,00 1,0	1,0 1,			,0 0,0 2	.,0 2.,0	1,0 2,0	
Structure	Fully austenitic							
Ammericale	TÜV, DB, CE							
Approvals	TOV, DD, CL							
Gas types applicable TIG	11							
Gas types applicable MIG	M 12							
21 11	-							
TIG rod diameters,	Diameter		Length			Kg per box		
unit weights	[mm]		[mm]			10.0		
	1,60		1000			10,0 10.0		
	2,00 2,40		<u>1000</u> 1000			10,0		
	3.20		1000			10,0		
	3,20			000		10,0		
MIG welding wire	Diameter	0,8mr	n 1	,0mm	1,2mm			
Welding positions MIG acc.to EN ISO 6947 Welding positions TIG acc.to EN ISO 6947		PA, PB, PA, PB,						
Current/Polarity TIG		-						
•								
Current/Polarity MIG		= +						