

Physical Characteristics

	STA	STH	ROF	ROH	RO4	RO8	STM/STL	MES
WNo.			1.4301	1.4310	1.4401	1.4860		CuZn37
AISI			304	301	316			
Tensile Strength in N/mm ² *	1800–2100	2300–2500	1900–2200	2000–2400	1600–1800	1600–1800	2300–2600	900–1200
Specific Gravity in g/cm ³	7.85	7.85	7.85	7.85	7.85	7.90	7.85	8.50
Temperature Consistency in °C	+ 300 °C	+ 350 °C	+ 450 °C	+ 450 °C	+ 500 °C	+ 600 °C	+ 300 °C	+ 180 °C

Chemical Resistance

Chemicals	Metal Wires								Synthetic Bristles			Grinding Bristles				
	BRO	MES	NSI	RO4	ROF	ROH**	ROH***	STA	STH	STL	STM	PP	PA	PE	SIC	AO
Acetic acid (≤ 80 %)	○	–	–	+	+	+	+	–	–	–	–	○	○	+	–	–
Nitric acid (≤ 90 %)	–	–	–	+	+	+	+	–	–	–	–	–	–	○	–	–
Hydrochloric acid (≤ 2%)	○	○	○	○	–	–	–	–	–	–	–	+	–	+	–	–
Sulphuric acid (≤ 80 %)	○	–	–	○	○	○	+	–	–	–	–	○	–	○	–	–
Caustic potash (≤ 50 %)	+	+	–	+	+	+	+	–	–	–	–	+	+	+	+	+
Caustic soda (≤ 20 %)	+	+	+	+	+	+	+	–	–	–	–	+	+	+	+	+
Ketones, Ester	+	+	+	+	+	+	+	+	+	+	+	+	+	○	+	+
Benzene, Benzin	+	+	+	+	+	+	+	+	+	+	+	○	+	–	+	+
Water absorption												< 0.05 %	< 10 %	< 0.03 %	< 8–10 %	< 8–10 %

* = the specified Tensile Strength is applicable for a wire strength 0.3–0.4 mm
 + = resistant
 – = conditionally resistant
 ○ = not resistant
 ** = WNo. 1.4310 and 1.4300HLS
 *** = WNo. 1.4860

STA = steel wire
STH = steel wire high tensile
ROF = stainless steel wire
RO4 = stainless steel wire, 1.4401
RO8 = stainless steel wire, straight, extremely heat resistant
ROH = stainless steel wire high tensile

STM = brass coated steel
STL = cord wire
MES = brass wire
BRO = bronze wire
NSI = nickel silver wire
PP = polypropylene
PA = polyamide
PE = polyethylene

SIC = silicon carbide bristles
AO = aluminium oxide bristles

No responsibility is taken for the correctness of this information