

### Physical Characteristics

	STA	STH	ROF	ROH	RO4	RO8	STM/STL	MES
WNR.			1.4301	1.4310	1.4401	1.4860		CuZn37
AISI			304	301	316			
Tensile Strength in N/mm <sup>2</sup> *	1800–2100	2300–2500	1900–2200	2000–2400	1600–1800	1600–1800	2300–2600	900–1200
Specific Gravity in g/cm <sup>3</sup>	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  
 \*\* = WNR. 1.4310 and 1.4300HLS  
 \*\*\* = WNR. 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