AURY
Africa (Pty) Ltd

Wire Products



www.auryscreeningsolutions.co.za

AURY
Africa (Pty) Ltd

ABOUT US

Utilizing new state-of-the-art "Frigerio" drawing equipment. Aury has developed into a specialised manufacturer of High Carbon Wire and other Speciality Wires. We also export to numerous countries worldwide.

We are also continuously diversifying our product range to supply a more comprehensive product range to our customers.

QUALITY POLICY

As a leading manufacturer and supplier of Hard Drawn Steel Wire, our aim is to achieve long term sustainable growth through the provision of products and services meeting the needs of our valued customers and exceeding their expectations with an emphasis on building lasting relationships and increasing our customer base.

Based on this we will ensure our operations are maintained in a manner to supply and meet the demands of our customers being the Preferred Supplier in the market.

Our commitment to our people is to have a sustainable growth pattern in an everchanging market and maintaining all legal and other compliance legislation in which we need to comply with at all times.

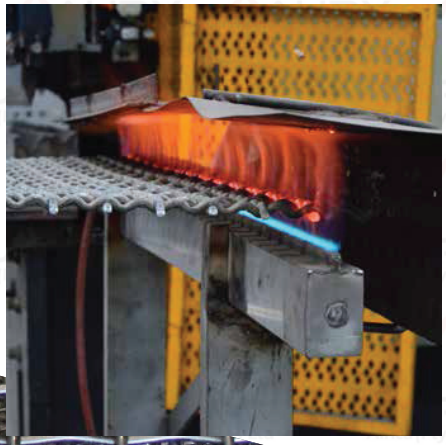
We will endeavour to grow people into positions through our training strategy plan we have created within the Company.

QUALITY DEPARTMENT

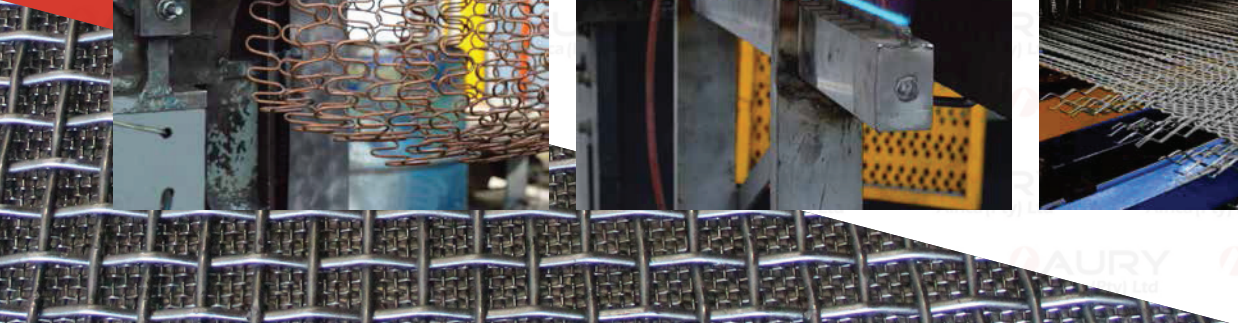
Our quality management system is assessed through vigorous audits to ensure compliance to ISO 9001:2015 is met. We also achieved Product Certification and "CE" mark for ER 70S-6 Gas Shielded Welding Wire from TÜV Rheinland in Germany.

To this end Management and staff commit to comply with the requirements of ISO 9001:2015 and any other standards that need to be complied with.









AURY Africa (Pty) Ltd

BEDDING AND SEATING WIRE

Our bedding and seating wire is approved internationally by premium manufacturers for use in Bonnel, Pocket, Mira Coils, Verti Coils and LFK configurations.

Size Range:	0.90mm to 5.0mm
Tensile Strength:	As per EN 10270-1
Coating:	Copper Washed or Phosphated
Packaging:	Cardboard Cores, Steel Wire Carriers or Coils. Please see page 11 for packaging option/details.

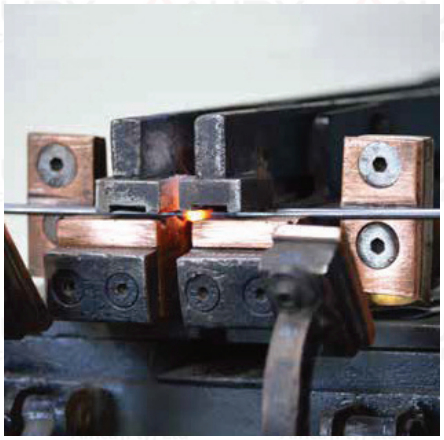
















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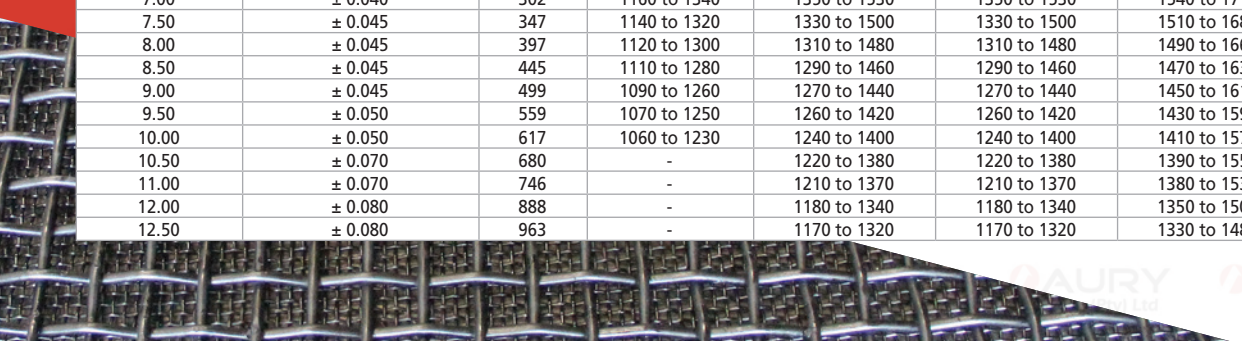
STEEL WIRE
For Engineering Applications

High quality wire is achieved from the control of both raw materials and the wire drawing process. We are able to produce high quality steel wire for the following applications:

Wire for Mechanical Springs

Applications:	Compression, Extension and Torsion Springs
Size Range:	0.7mm to 12.50mm
Tensile Strength:	As per EN 10270-1
Coating:	Phosphated
Packaging:	Cardboard Cores, Steel Wire Carriers or Coils

Nominal Size mm	Permissible Deviations mm		SL MPa	SM MPa	DM MPa	SH MPa	DHf MPa
0,80	± 0,015	3,95	-	2050 to 2300	2050 to 2300	2310 to 2560	2310 to 2560
0,85	± 0,015	4,45	-	2030 to 2280	2030 to 2280	2290 to 2530	2290 to 2530
0,90	± 0,015	4,99	-	2010 to 2260	2010 to 2260	2270 to 2510	2270 to 2510
0,95	± 0,015	5,59	-	2000 to 2240	2000 to 2240	2250 to 2490	2250 to 2490
1,00	± 0,015	6,17	1720 to 1970	1980 to 2220	1980 to 2220	2230 to 2470	2230 to 2470
1,05	± 0,020	6,80	1710 to 1950	1960 to 2200	1960 to 2200	2210 to 2450	2210 to 2450
1,10	± 0,020	7,46	1690 to 1940	1950 to 2190	1950 to 2190	2200 to 2430	2200 to 2430
1,20	± 0,020	8,88	1670 to 1910	1920 to 2160	1920 to 2160	2170 to 2400	2170 to 2400
1,25	± 0,020	9.63	1660 to 1900	1910 to 2140	1910 to 2140	2150 to 2380	2150 to 2380
1,30	± 0,020	10.42	1640 to 1890	1900 to 2130	1900 to 2130	2140 to 2370	2140 to 2370
1,40	± 0,020	12.08	1620 to 1860	1870 to 2100	1870 to 2100	2110 to 2340	2110 to 2340
1,50	± 0,020	13.90	1600 to 1840	1850 to 2080	1850 to 2080	2090 to 2310	2090 to 2310
1,60	± 0,020	15.80	1590 to 1820	1830 to 2050	1830 to 2050	2060 to 2290	2060 to 2290
1,70	± 0,020	17.80	1570 to 1800	1810 to 2030	1810 to 2030	2040 to 2260	2040 to 2260
1,80	± 0.025	20.00	1550 to 1780	1790 to 2010	1790 to 2010	2020 to 2240	2020 to 2240
1,90	± 0.025	22.30	1540 to 1760	1770 to 1990	1770 to 1990	2000 to 2220	2000 to 2220
2,00	± 0.025	24.70	1520 to 1750	1760 to 1970	1760 to 1970	1980 to 2200	1980 to 2200
2,10	± 0.025	27.20	1510 to 1730	1740 to 1960	1740 to 1960	1970 to 2180	1970 to 2180
2,25	± 0.025	31.20	1490 to 1710	1720 to 1930	1720 to 1930	1940 to 2150	1940 to 2150
2,40	± 0.025	35.50	1470 to 1690	1700 to 1910	1700 to 1910	1920 to 2130	1920 to 2130
2,50	± 0.025	38.50	1460 to 1680	1690 to 1890	1690 to 1890	1900 to 2110	1900 to 2110
2,60	± 0.025	41.70	1450 to 1660	1670 to 1880	1670 to 1880	1890 to 2100	1890 to 2100
2,80	± 0.030	48.30	1420 to 1640	1650 to 1850	1650 to 1850	1860 to 2070	1860 to 2070
3,00	± 0.030	55.50	1410 to 1620	1630 to 1830	1630 to 1830	1840 to 2040	1840 to 2040
3,20	± 0.030	63.10	1390 to 1600	1610 to 1810	1610 to 1810	1820 to 2020	1820 to 2020
3,40	± 0.030	71.30	1370 to 1580	1590 to 1780	1590 to 1780	1790 to 1990	1790 to 1990
3,60	± 0.030	79.90	1350 to 1560	1570 to 1760	1570 to 1760	1770 to 1970	1770 to 1970
3,80	± 0.030	89.00	1340 to 1740	1550 to 1740	1550 to 1740	1750 to 1950	1750 to 1950
4.00	± 0.030	98.6	1320 to 1520	1530 to 1730	1530 to 1730	1740 to 1930	1740 to 1930
4.25	± 0.035	111	1310 to 1500	1510 to 1700	1510 to 1700	1710 to 1900	1710 to 1900
4.50	± 0.035	125	1290 to 1490	1500 to 1680	1500 to 1680	1690 to 1880	1690 to 1880
4.75	± 0.035	139	1270 to 1470	1480 to 1670	1480 to 1670	1680 to 1860	1680 to 1860
5.00	± 0.035	154	1260 to 1450	1460 to 1650	1460 to 1650	1660 to 1840	1660 to 1840
5.30	± 0.035	173	1240 to 1430	1440 to 1630	1440 to 1630	1640 to 1820	1640 to 1820
5.60	± 0.040	193	1230 to 1420	1430 to 1610	1430 to 1610	1620 to 1800	1620 to 1800
6.00	± 0.040	222	1210 to 1390	1400 to 1580	1400 to 1580	1590 to 1770	1590 to 1770
6.30	± 0.040	245	1190 to 1380	1390 to 1560	1390 to 1560	1570 to 1750	1570 to 1750
6.50	± 0.040	260	1180 to 1370	1380 to 1550	1380 to 1550	1560 to 1740	1560 to 1740
7.00	± 0.040	302	1160 to 1340	1350 to 1530	1350 to 1530	1540 to 1710	1540 to 1710
7.50	± 0.045	347	1140 to 1320	1330 to 1500	1330 to 1500	1510 to 1680	1510 to 1680
8.00	± 0.045	397	1120 to 1300	1310 to 1480	1310 to 1480	1490 to 1660	1490 to 1660
8.50	± 0.045	445	1110 to 1280	1290 to 1460	1290 to 1460	1470 to 1630	1470 to 1630
9.00	± 0.045	499	1090 to 1260	1270 to 1440	1270 to 1440	1450 to 1610	1450 to 1610
9.50	± 0.050	559	1070 to 1250	1260 to 1420	1260 to 1420	1430 to 1590	1430 to 1590
10.00	± 0.050	617	1060 to 1230	1240 to 1400	1240 to 1400	1410 to 1570	1410 to 1570
10.50	± 0.070	680	-	1220 to 1380	1220 to 1380	1390 to 1550	1390 to 1550
11.00	± 0.070	746	-	1210 to 1370	1210 to 1370	1380 to 1530	1380 to 1530
12.00	± 0.080	888	-	1180 to 1340	1180 to 1340	1350 to 1500	1350 to 1500
12.50	± 0.080	963	-	1170 to 1320	1170 to 1320	1330 to 1480	1330 to 1480



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STEEL WIRE

For use in Prestressed Concrete Applications

We have a state of the art P.C. line for the manufacture of High Tensile Steel Wire for use in the pre-stressing of concrete.

Stress Relieved Wire - Low Relaxation

Wire is supplied in large diameter self straightening coils with either a plain or indented surface. Wire conforms in all aspects to the international standard per EN10138.

Table 1 summarizes the characteristics of wire used in the pre-stressing of concrete.

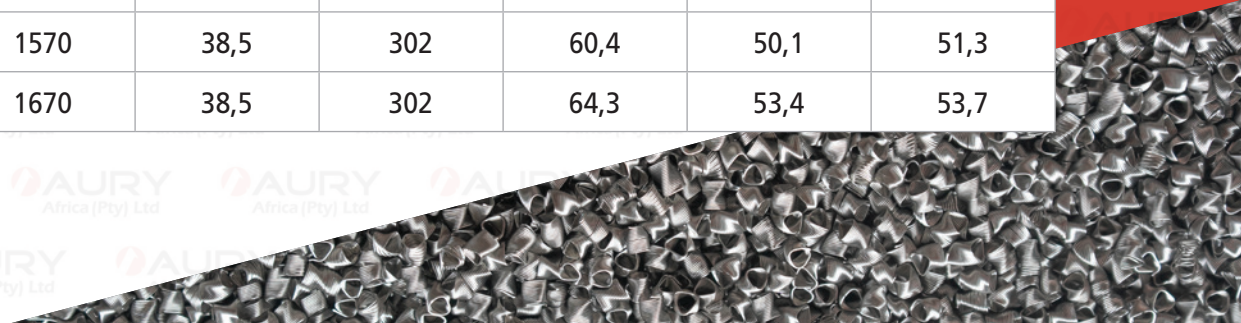
Typical Coil dimensions are:

Coil ID	Minimum 1470mm
Coil OD	Maximum 2300mm
Coil Mass	500kg to 2200kg

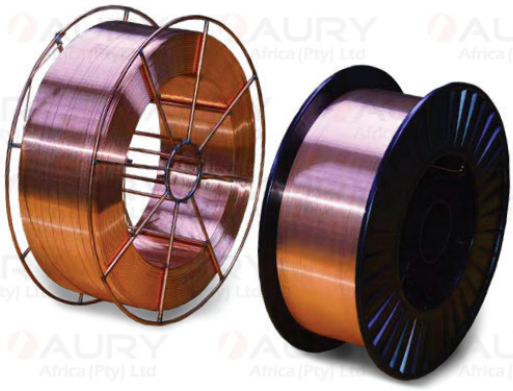
Specific customer requirements on coil diameter and mass can be accommodated through adjustable take-ups.

Stress Relieved Wire - Table 1

Nominal Diameter (mm)	Nominal Value		Specified Characteristic Values		Nominal Value	
	Tensile Strength (N/mm²)	X-Sect Area (mm²)	Mass (g/m)	Breaking Load (kN)	0,1% Proof Load (kN)	Load at 1% Extension (kN)
4,0	1670	12,60	98,9	21,0	17,5	17,9
4,0	1770	12,6	98,9	22,3	18,5	19,0
4,5	1620	15,9	125	25,8	21,4	21,9
5,0	1670	19,6	154	32,7	27,2	21,8
5,0	1770	19,6	154	34,7	28,8	29,5
6,0	1670	28,3	222	47,3	39,3	40,2
6,0	1770	28,3	222	50,1	41,6	42,6
7,0	1570	38,5	302	60,4	50,1	51,3
7,0	1670	38,5	302	64,3	53,4	53,7



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MIG WIRE
(CO^2 Welding Wire)

We are currently the only manufacturers of MIG Wire in South Africa. The latest state-of-theart technology, imported from Italy, has been installed for the manufacturing of our MIG Wire.

Wire for Mechanical Springs

Size Range:	0.80mm to 1.60mm
Coating:	Copper Plated
Specification:	AWS A 5.18 ER 70S-6
Packaging:	15kg or 18kg Plastic Spools or Wire Baskets



WELDING ELECTRODE CORE WIRE

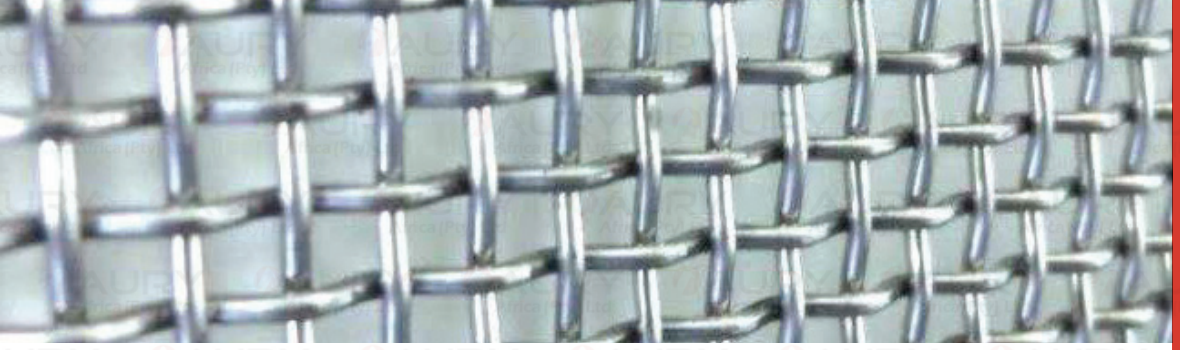
We draw and cut wire for High Quality welding electrodes into different sizes. These are packed into steel bins or cardboard (cores?).

Specification:	SAE 1008 - Low Temp Welding Quality	
Size Range: Wire Diameter	**Electrode Wire:** 2.00mm x 300mm; 3.15mm x 350mm; 4.00mm x 350mm; 400mm x 450mm; 5.00mm x 350mm; 500mm x 450mm; 6.30mm x 450mm	**KV 1005 - KV Welding:** 2.50mm x 300mm 3.15mm x 350mm 4.00mm x 350mmm





Electrode core wire



AURY Africa (Pty) Ltd

HIGH CARBON WEAVING WIRE

We draw high carbon weaving wire for the manufacturing of woven wire screens for the general mining and aggregate industries. We also manufacture the woven screens at one of our facilities.

High Carbon Weaving Wire Specification

Size Range:	0.90mm to 12.50mm
Coating:	Copper Washed or Phosphate
Packaging:	Cardboard Cores, Steel Wire Carriers or Coils Please see page 11 for packaging option/details.

Element %	Carbon	Manganese	Silicon	Sulpher	Phosphorus
Min	0.50	0.50	-	-	-
Max	0.59	1.00	0.40	0.05	0.05

Tensile and Size Tolerance (1) Tensile 50/59 carbon

Size	Tolerance	Tensile Range (1)
0.90mm	0.88 - 0.92mm	1500/1700
1.00mm	0.98 - 1.02mm	1500/1700
1.20mm	1.18 - 1.22mm	1500/1700
1.60mm	1.58 - 1.62mm	1450/1650
1.80mm	1.78 - 1.82mm	1500/1700
2.00mm	1.98 - 2.02mm	1450/1650
2.50mm	2.47 - 2.53mm	1300/1500
2.60mm	2.57 - 2.63mm	1300/1500
3.00mm	2.97 - 3.03mm	1200/1400
3.15mm	3.12 - 3.18mm	1150/1350
4.00mm	3.96 - 4.04mm	1150/1350
4.50mm	4.46 - 4.54mm	1200/1400
4.80mm	4.77 - 4.83mm	1200/1400
5.00mm	4.96 - 5.04mm	1150/1350
6.00mm	5.95 - 6.05mm	1050/1250

Size	Tolerance	Tensile Range (1)
6.30mm	6.25 - 6.35mm	1050/1250
7.00mm	6.95 - 7.05mm	1050/1250
7.50mm	7.45 - 7.55mm	1050/1250
8.00mm	7.95 - 8.05mm	1050/ 1250
9.00mm	8.95 - 9.05mm	1050/1250
9.50mm	9.45 - 9.55mm	1050/1250
10.00mm	9.95 - 10.05mm	1050/1250
10.50mm	10.45 - 10.50mm	1050/1250
11.00mm	10.95 - 11.05mm	1050/1250
11.50mm	11.45 - 11.55mm	1050/1250
12.00mm	11.95 -12.05mm	1050/1250
12.50mm	12.45 - 12.55mm	1050/1250

(1) Tensile range 50/59 for normal application.



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HARD DRAWN MILD STEEL WIRE

We draw hard drawn mild steel wire for a wide range of applications, including automative, racking, filters, etc.

Hard Drawn Mild Steel Specifications

Size Range:	1.20mm to 12.50mm
Tensile Strength:	400/900 Mpa
Coating:	Copper Washed or Black
Packaging:	Cardboard Cores, Steel Wire Carriers or Coils Please see page 11 for packaging option/details.

BAILING WIRE & BLACK ANNEALED WIRE

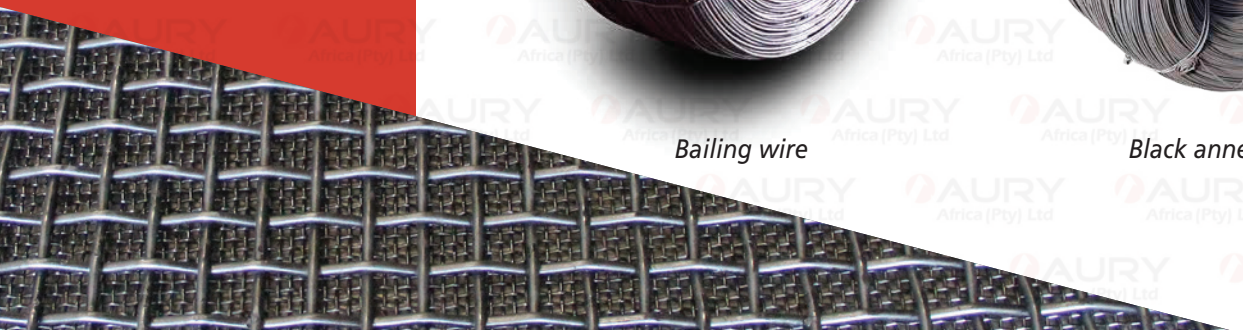
Application:	Application: Black Annealed Wire is used for the fixing of concrete reinforcing and for general binding applications.
Size Range:	0.80mm to 5.00mm
Tensile Strength:	350 to 450 Mpa
Packaging:	Coils or Spools. Please see page 11 for packaging option/details.



Bailing wire



Black annealed wire





STEEL WOOL

Steel wool Wire is one of our speciality wires and is suitable for household and brake pad applications.

Steel Wool Specifications

Size Range:	2.64mm to 3.36mm
Tensile Strength:	850 - 1100 Mpa
Coating:	Phosphate
Packaging:	Cardboard Cores, Steel Wire Carriers, Coils or Z3 and Z4 Coils. Please see page 11 for packaging option/details.

Wire is manufactured for a variety of applications, such as:

- Rivet Wire
- Lintel Wire
- Wire for Ducting Reinforcements
- Washer Wire
- Masonry Nail Wire
- Filter Wire
- Precast Walling Wire
- Ducting Wire



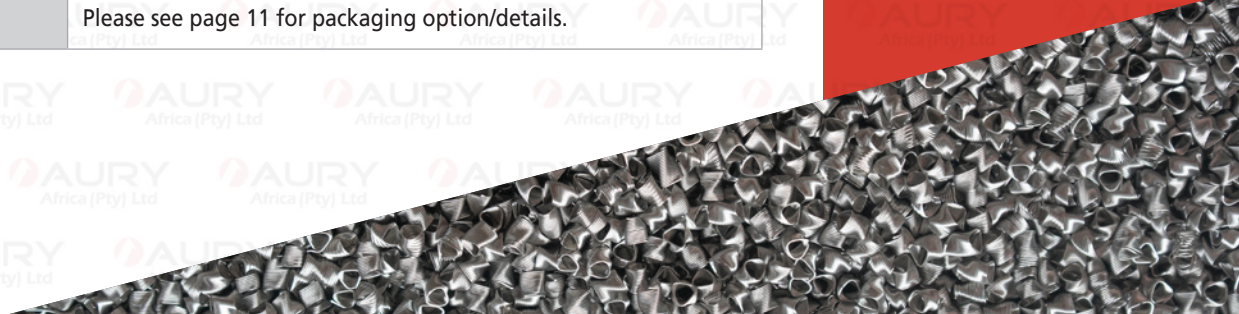
Z2 Pack



Lintel wire

Steel Wool Specifications

Size Range:	0.70mm to 12.50mm
Tensile Strength:	As per customers requirements
Condition:	Hard drawn or Spherodise Annealed
Coating:	Phosphate
Packaging:	Coils or Z2 Coils Please see page 11 for packaging option/details.



AURY
Africa (Pty) Ltd

PACKAGING

We have the following packaging options available:

CORE 1	Wire Diameters: 1.2mm to 4.8mm Mass: 500kg to 800kg
CORE 2	Wire Diameters: 1.8mm to 4.3mm Mass: 800kg to 950kg
CORE 3	Wire Diameters: 1.8mm to 4.3mm Mass: 800kg to 1200kg



Core 2 - 447mm *Core 1 - 506mm* *Core 3 - 506mm*



Plastic wrapped coil



Plastic wrapped dolly

Wrapping machine





Plastic wrapped coil

WIRE COMPONENTS

Mattress Frames:
• Single; • Three Quarter; • Double; • Queen; • King
Size Range from 4.00mm; 4.25mm; 4.88mm;
Size 11mm M46 Flat clip for Mattress frame

Butterfly spring (Mattress side support spring):
3.25mm Bedding wire / 160mm up to 175mm

M Spring / Corner Support Spring:
Size range 3.66mm to 4.00mm; 160mm Height; 1500/1650 Mpa

Wire straitening and cutting:
Size Range 1.60mm to 11.20mm; Length 150mm to 6000mm

Z – Springs:
Flat, Mod Curve, Bend Back, Double Bend Back, 30m Spring Rolls, Super loops

Z - Clips:
19mm x 1mm

Galvanized Bedding Chain:
2.00mm Chain in 50kg per bag; 75mm Z – Hook clips for the Bedding Chain

Bale Ties:
3.20mm to 4.80mm cut to specification

Trampoline Springs:
160mm Length

Hog rings / C – Clips:
1.70mm and 1.80mm in strips or lose

Wire Ties:
Size 1.20mm to 1.60mm; Length 80mm to 400mm

Contact us

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