BLACK PAW®

THE POWER TO PERFORM

BRONZE WIRE WHEEL BRUSH 5/8" 11 UNC NUT - ANSI B165.1

The BlackPaw Bronze Wire Knotted Wheel Brush is designed for cleaning, polishing, deburring, and surface preparation on various materials. With a 5/8" -11 UNC arbor hole size, this brush offers precise, powerful brushing action for a variety of industrial and automotive tasks. Made from non-ferrous bronze wire, this brush is ideal for environments where spark-free operations are critical, ensuring safety in potentially hazardous areas. Its non-ferrous construction also minimizes the risk of contamination when working with sensitive materials. This wheel provides the ideal balance of strength, flexibility, and resistance to wear, making it suitable for both delicate and heavy-duty applications.

- Size: 5/8" diameter
- Arbor: 11 UNC threaded, ensuring a secure fit to your power tools
- Max RPM: 20,000 for high-speed operation
- Bronze wire construction, offers the ideal balance of strength, flexibility, and resistance to wear
- Non-ferrous metal construction, guarantees spark free use
- Conforms to ANSI Standard B165.1

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20,000 MAX RPM: With a max speed of 20,000 RPM, this wire wheel is designed to operate at high velocity, allowing for rapid and efficient material removal. The fast rotation speed ensures that large cleaning jobs are completed in less time, improving productivity and reducing labor costs.

Ideal for Surface Cleaning: The BlackPaw Bronze Wire Wheel Knotted Brush is specifically designed for surface cleaning, polishing, and finishing on a wide variety of materials, including metals, wood, and composites. It is particularly useful for applications that require precision cleaning, such as in automotive detailing, industrial machinery maintenance, and more.

Non-Sparking (Non Ferrous): Designed with safety in mind for use in chemical plants, mining, and other industries that deal with volatile substances. The non-ferrous metal construction does not generate any friction, which ensures that the wire wheel brush do not create any no accidental sparks will ignite volatile gases, powders, or liquids, reducing the risk of fire or explosion.

Corrosion Resistant: Bronze wire is naturally resistant to corrosion, which makes the bronze wire wheel perfect for long-term use in environments where exposure to moisture or chemicals is common. This high resistance to wear ensures that the wheel maintains its shape and efficiency, even after prolonged use, making it a reliable tool for both light and heavy-duty tasks.

Durable and Non-Abrasive: Bronze wire is softer than steel, which means it is less likely to cause surface damage or leave deep scratches, making it ideal for sensitive workpieces. The bronze wire provides a controlled, non-abrasive cleaning action that removes dirt, rust, and scale while preserving the integrity of the base material.

Specially Designed: This wire wheel is designed to fit most standard power tools, including angle grinders, bench grinders, and drill attachments, offering the flexibility for different applications. This compatibility with high-speed tools allows for efficient and quick work on large surfaces or detailed, intricate areas.

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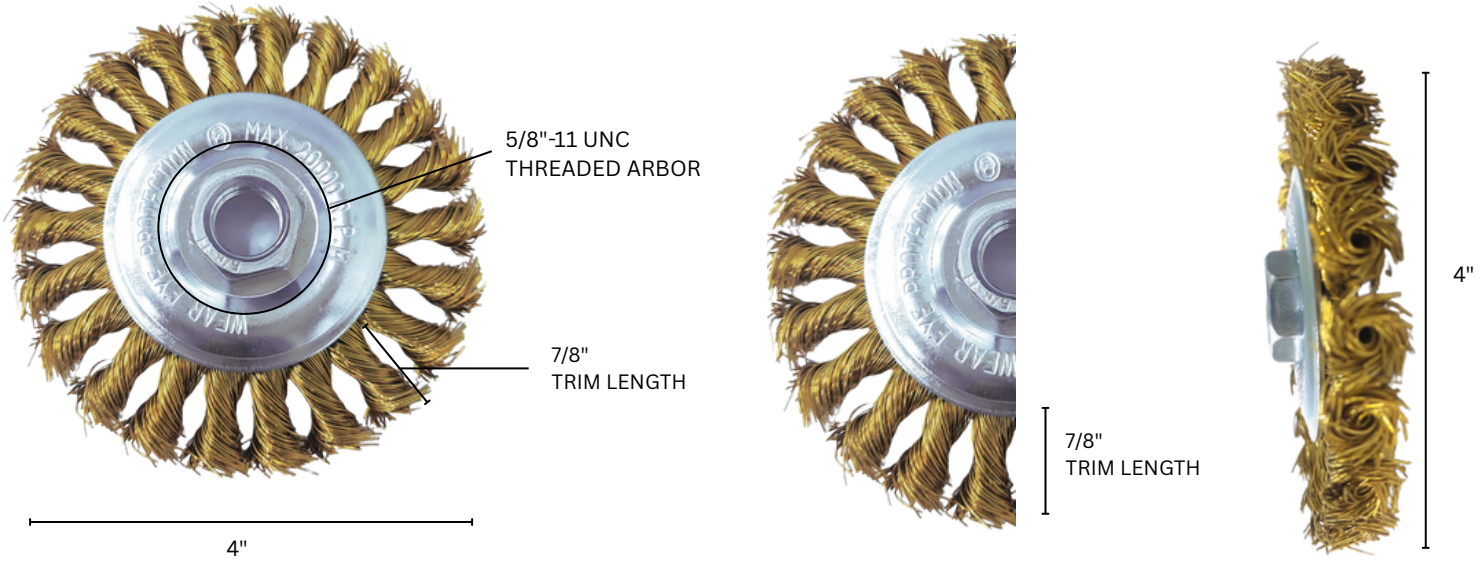
SPECIFICATIONS

Ro Hs	Compliant
Industry	Manufacturing
Product Type	Knotted Wire Wheel
Fill Material	Bronze
Attachment Type	Threaded Nut
ANSI Standard	B165.1
Special Features	Non-Sparking
Prop65Warning Description	WARNING Lead

Number of Knots	22
Face Diameter	0.020"
Diameter	4"
Trim Length	7/8"
Arbor Hole Size	5/8"-11 UNC
Maximum RPM	20000
Thicknessat Face Plates	7/16"

STANDARD / GUIDELINES	RELEVANCE
ANSI B165.1-2019	Safety standard for power-driven brushing tools
OSHA Guidelines	Use of non-sparking tools in hazardous atmospheres
ATEX Directive 2014/32/EU	Suitable for explosive atmospheres (Zone1/2/21/22), based on material composition
RoHS Compliance	This product is free of restricted substances per RoHS Directive 2011/65/EU & (EU) 2015/863

DIMENSIONS



SDS- BRONZE WIRE
Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Bronze Wire

1.2. Details of the supplier of the safety data sheet

BlackPaw
ChangShou Building 5-A-603,
Rongye Street, Heping District. Tianjin, China.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product as manufactured is defined as an article per 29 CFR 1910.1200. No exposure hazards are anticipated during normal product handling conditions. In most cases, the material(s) removed from the workpiece may present a greater hazard than material released by the product. Based upon the materials that are contained within the working portion of this product it is possible that some dust particles from this product may be generated. The following safety data is presented for potential exposure hazards as associated with the dust particles that are related to this product.

SECTION 3: Composition/information on ingredients

3.1. Mixture

Name	Product identifier	%	Classification (GHS-US)
Copper	(CAS No) 7440-50-8	94 - 95	Not classified
Tin	(CAS No) 7440-31-5	<= 5.8	Not classified
Lead	(CAS No) 7439-92-1	<= 0.5	Carc. 1B, H350
Zinc	(CAS No) 7440-66-6	<= 0.3	Not classified
Iron	(CAS No) 7439-89-6	<= 0.1	Acute Tox. 4 (Oral), H302
Phosphorus elemental	(CAS No) 7723-14-0	<= 0.03	Not classified

Full text of H-phrases: see section 14

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.

First-aid measures after skin contact : Wash with soap and water. Seek medical advice if skin irritation develops or persists.

First-aid measures after eye contact : Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.

First-aid measures after ingestion : First-aid measures after ingestion : Seek medical attention

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation including flu-like symptoms (metal fume fever); may include fever, chills, nausea, vomiting, appears 4-12 hours after exposure.

Symptoms/injuries after skin contact : May cause irritation and dermatitis.

Symptoms/injuries after eye contact : May cause irritation.

Symptoms/injuries after ingestion : None under normal use.

SECTION 5: Handling and storage

5.1. Precautions for safe handling

Precautions for safe handling : No special handling required.

5.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special storage conditions required.

SECTION 6: Exposure controls/personal protection

6.1. Control parameters

Copper (7440-50-8)		
ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³ (fume)
OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m³ (fume) 1 mg/m³ (dust and mist)
Zinc (7440-66-6)		
ACGIH	Not applicable	
OSHA	Not applicable	
Lead (7439-92-1)		
ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	0.5 mg/m³
Iron (7439-89-6)		
ACGIH	Not applicable	
OSHA	Not applicable	
Phosphorus elemental (7723-14-0)		
ACGIH	Not applicable	
OSHA	Not applicable	
Tin (7440-31-5)		
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
OSHA	Not applicable	

Note: Consideration should be given to the base material and coating that are being worked upon.

6.2. Exposure controls

Appropriate engineering controls:

Utilize adequate ventilation to minimize the exposure to airborne particulates and maintain the concentration of contaminants below the occupational exposure limits.

Respiratory Protection:

When exposure limits are exceeded or when the dust concentrations are excessive, approved respirators for those conditions should be used. When selecting the respiratory protection equipment, consideration of the exposure to the coating or the base materials being worked on should be included. Local regulations and standards should be followed where appropriate. The type of respiratory equipment used should be selected according to the contaminate type, form and concentration being produced. Select and use respirators in accordance with applicable regulations and good industrial hygiene practice.

Hand protection:

The use of cloth or leather gloves is recommended.

Eye Protection:

Safety googles or face shield over safety glasses with side shields.

Hearing Protection:

Hearing protection may be required.

Skin and body protection:

The use of protective clothing should be used as needed to prevent the contamination of personal clothing.

SECTION 7: Physical and chemical properties

7.1. Information on basic physical and chemical properties

Physical state :	Solid
Color :	Brown
Odor :	Odorless
Odor threshold :	No data available
pH :	No data available
Melting point :	No data available
Freezing point :	No data available
Boiling point :	No data available
Flash point :	No data available
Relative evaporation rate (butyl acetate=1) :	No data available
Flammability (solid, gas) :	No data available
Explosion limits :	No data available
Explosive properties :	No data available
Oxidizing properties :	No data available
Vapor pressure :	No data available
Specific gravity :	8.53
Relative vapor density at 20 °C :	No data available
Solubility :	No data available
Log Pow :	No data available
Log Kow :	No data available
Auto-ignition temperature :	No data available
Decomposition temperature :	No data available
Viscosity :	No data available
Viscosity, kinematic :	No data available
Viscosity, dynamic :	No data available

SECTION 8: Stability and reactivity

8.1. Reactivity
No additional information available
8.2. Chemical stability
The product is stable at normal handling and storage conditions.
8.3. Possibility of hazardous reactions
Will not occur.
8.4. Conditions to avoid
None.
8.5. Incompatible materials
None.
8.6. Hazardous decomposition products
Not determined

SECTION 9: Toxicological information

9.1. Information on toxicological effects

Acute toxicity : Not classified

Iron (7439-89-6)	
LD50 oral rat	984 mg/kg
ATE US (oral)	984.000 mg/kg

Phosphorus elemental (7723-14-0)	
LD50 oral rat	3.03 mg/kg
LD50 dermal rat	100 mg/kg
LC50 inhalation rat (mg/l)	4.3 mg/l (Exposure time: 1 h)

Tin (7440-31-5)	
LD50 oral rat	700 mg/kg

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Lead (7439-92-1)	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified

SECTION 10: Ecological information

10.1. Toxicity

Copper (7440-50-8)	
LC50 fish 1	0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

Zinc (7440-66-6)	
LC50 fish 1	2.16 - 3.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.139 - 0.908 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	0.211 - 0.269 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])

Lead (7439-92-1)	
LC50 fish 1	0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 1	600 µg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	1.17 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

Phosphorus elemental (7723-14-0)	
LC50 fish 1	0.0017 - 0.0035 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	0.001 - 0.004 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	0.025 - 0.037 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

10.2. Bioaccumulative potential

Phosphorus elemental (7723-14-0)	
BCF fish 1	< 200

SECTION 11: Disposal considerations

11.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 12: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not a dangerous good as defined in transport regulations

SECTION 13: Regulatory information

13.1. US Federal regulations

Copper (7440-50-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting	1.0 %

Zinc (7440-66-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting	1.0 % (dust or fume only

Lead (7439-92-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting	0.1 %

Iron (7439-89-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Phosphorus elemental (7723-14-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 302 (Specific toxic chemical listings) Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 302 Threshold Planning Quantity (TPQ)	100 (This material is a reactive solid. The TPQ does not default to 10000 pounds for nonpowder, non-molten, non-solution form)
SARA Section 313 - Emission Reporting	1.0 % (yellow or white)

Tin (7440-31-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

13.2. US State regulations

Lead (7439-92-1)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	Yes	Yes	Yes	Yes

Copper (7440-50-8)

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Zinc (7440-66-6)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) Lis

Lead (7439-92-1)

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Phosphorus elemental (7723-14-0)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Tin (7440-31-5)

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 14: Regulatory information

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1B	Carcinogenicity Category 1B
H302	Harmful if swallowed
H350	May cause cancer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product