**Crossword «METALS»**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  | **10.**P |  |  |  |  |  |  |
|  |  | **4.**D |  |  |  |  |  |  |  | R |  |  |  |  |  |  |
|  |  | U |  |  |  | **11.**C | O | M | P | O | S | I | T | I | O | N |
|  |  | C |  |  |  |  |  |  |  | P |  |  |  |  |  |  |
|  |  | T |  |  |  |  |  |  |  | E |  |  |  |  |  |  |
|  |  | **5.**I | R | O | N |  |  |  | **13.**C | R | E | E | P |  |  |  |
|  |  | L |  |  |  |  |  |  |  | T |  |  |  |  |  |  |
|  | **1.**M | E | T | **2**.A | L | L | U | R | G | Y |  |  |  |  |  |  |
|  |  |  |  | T |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | O |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | **3.**M | A | **6.**L | L | E | **8.**A | B | L | E |  |  |  |  |
|  |  |  |  |  |  | E |  |  | L |  |  |  |  |  |  |  |
|  |  |  |  |  |  | A |  |  | L |  |  |  |  |  |  |  |
|  |  |  |  |  |  | D |  | **9.**R | O | L | L | I | N | **16.**G |  |  |
|  | **12.**S |  |  |  |  |  |  |  | Y |  |  |  |  | R |  |  |
|  | T |  |  |  |  |  |  |  | I |  |  |  |  | A |  |  |
| **7.**C | R | Y | **14.**S | T | A | L | L | I | N | E |  |  | **15.**W | I | R | E |
|  | E |  | I |  |  |  |  |  | G |  |  |  |  | N |  |  |
|  | S |  | Z |  |  |  |  |  |  |  |  |  |  | S |  |  |
|  | S |  | E |  |  |  |  |  |  |  |  |  |  |  |  |  |

ACROSS:

1. The study of the production and properties of metals.

3. When metals can be deformed and bent without fracture.

5. It can only be worked by hammering at red heat.

7. The regular arrangement of atoms in metals gives them a … structure.

9. The metal forming process in which metal stock is passed through one or more pairs of rolls to reduce the thickness, to make the thickness uniform, and/or to impart a desired mechanical property.

11. The nature of something's ingredients or constituents; the way in which a whole or mixture is made up.

13. The slow increase in length under stress.

15. The metal in the form of a usually very flexible thread or slender rod.

DOWN:

1. The smallest component of an element having the chemical properties of the element.

4. When metals can be drawn into wire.

6. It can be bent by hand.

8. Small amounts of other metals (less than 1 per cent) are often added to a pure metal.

10. It depend on the size, shape, orientation, and composition of these grains.

12. Pressure or tension exerted on a material object.

14. How large or small something or someone is.

16. Irregular crystals.