



Unit 3 Various working materials

Solution: see Audioscript

Task 04. Fill in the missing words from the box.

Light metals – Metals – heavy metals – choice – working materials – sintered materials – glass – synthetic materials – non-metals – environmental – composite materials – natural – ferrous metals – combustibles – ceramic – mineral – characteristics – artificial – non-ferrous metals – process materials – cleaning agents – physical

Announcer: Listen to Lilly's and David's supervisor Mr Kaup talking about working materials.

Mr Kaup: Ok, today we're going to speak about _____, their _____ and the right choice to make between them. Just for repetition, you have already learned about the three groups of working materials, haven't you?

Lilly: Yes, there are metals, non-metals and _____.

Mr Kaup: Right, and do you know how _____ are sub-divided?

Lilly: Yes, I do ... They are sub-divided into _____, to which steel and materials for casting belong, and _____, such as light metals and heavy metals. _____ include elements such as aluminium, magnesium and titanium, while _____ are zinc, lead and copper. It is also important to know that lead is quite toxic.

Mr Kaup: Excellent, that's right. Miro, could you tell me something about _____?

Miro: Certainly. Non-metals are also sub-divided into _____ materials and _____ materials. Artificial materials are further divided into 3 sub-classes: the first are _____ such as thermoplastic, duroplastic and elastomer materials. Then the second artificial material sub-class are _____ materials and lastly, the third are _____ materials. Natural materials on the other hand, are made up of _____, plant or animal materials.



zielsicher English for Metalworking Technicians – Kopiervorlage zu Schulbuchseite 19

Mr Kaup: Great! You're right, of course ... and I'm sure you also know the third group ... the composite materials, which are sub-divided into _____, hard metals and reinforced synthetic materials.

Miro: Yes, but as far as I know, there are also some _____, used when doing the job, which are quite important, too, aren't there?

Mr Kaup: Yes, you're absolutely right: Process materials are really important!

Just to name the most important ones: _____, fuels, lubricants, coolants, abrasive and polishing materials, hardening agents, _____ and soldering agents.

As I mentioned before, these are just the most important ones, there are many more. Now, let's get to the point: The _____ of the right working material is based on different characteristics and considerations, such as: _____, chemical, mechanical, _____ and also economic considerations.