Specific Taxonomy - Copper

Level 1	Level 2	Level 3
Process Pre-treatment, Technology preparation and	Pre-treatment,	Thawing
		Drying
	transfer of raw	Crushing, size reduction and
	materials	screening
		Blending
		Briquetting, pelletising and other
		agglomeration methods
		Sintering and calcination
		Fuming
		De-coating and de-oiling
		Leaching and washing procedures
		Separation techniques
		Transfer and charging systems
	Primary copper	Roasting
	production	Smelting
	(pyrometallurgical route)	Converting
		Refining
		Electrorefining
		Treatment of copper-rich slags
	Primary copper	Crushing of ore
production	Leaching	
	(hydrometallurgical route)	Solvent extraction
		Stripping
		Electrowinning

Level 1	Level 2	Level 3
Process	Secondary copper	Secondary copper smelting stage
Technology	production	Converting
		Fire-refining and anode casting
		Electrolytic refining
		Melting, casting of shapes, wire- rod
	Wire rod production	Southwire process
		Contirod process
		Properzi and Secor processes
		Upcast process
		Dip-forming process
	Production of semi-	Melting
	finished products of	Casting
	copper and copper	Hot and cold working (extrusion
	alloys	and drawing/rolling)
	Production of copper	Preblending
	and copper alloy	Furnace melting
	ingots	Fume collection and abatement
		systems
		Fixed mould casting
		Master alloys
	Pickling operations	Acid treatment
		Non-acid pickling
		Drying and packaging
	Water and waste	Dry abatement techniques
	management	Wet air cleaning techniques
		Neutralisation and/or
		sedimentation
		Weak acid treatment
		Mercury removal
		Granulation of matt, slag and
		produced metal
		Cooling water

Level 1	Level 2	Level 3
Process	Residue	Techniques for residues from
Technology	management	smelting process
		Techniques for residues from
		abatement systems
		Techniques for residues from
		liquid effluent
		Techniques for residues from
		hydrometallurgical processes
		Techniques for other residues
		from production of non-ferrous
		metals

Level 1	Level 2	Level 3
Service	Pre-treatment,	Thawing
Technology	preparation and	Drying
	transfer of raw	Crushing, size reduction and
	materials	screening
		Blending
		Briquetting, pelletising and other
		agglomeration methods
		Sintering and calcination
		Fuming
		De-coating and de-oiling
		Leaching and washing procedures
		Separation techniques
		Transfer and charging systems
	Primary copper	Roasting
	production	Smelting
	(pyrometallurgical	Converting
	route)	Refining
		Electrorefining
		Treatment of copper-rich slags
	Primary copper	Crushing of ore
	production	Leaching
	(hydrometallurgical	Solvent extraction
	route)	Stripping
		Electrowinning
	Secondary copper	Secondary copper smelting stage
	production	Converting
		Fire-refining and anode casting
		Electrolytic refining
		Melting, casting of shapes, wire-
		rod

Level 1	Level 2	Level 3
Service	Wire rod production	Southwire process
Technology		Contirod process
		Properzi and Secor processes
		Upcast process
		Dip-forming process
	Production of semi-	Melting
	finished products of	Casting
	copper and copper	Hot and cold working (extrusion
	alloys	and drawing/rolling)
	Production of copper	Preblending
	and copper alloy	Furnace melting
	ingots	Fume collection and abatement
		systems
		Fixed mould casting
		Master alloys
	Pickling operations	Acid treatment
		Non-acid pickling
		Drying and packaging
	Water and waste	Dry abatement techniques
	management	Wet air cleaning techniques
		Neutralisation and/or
		sedimentation
		Weak acid treatment
		Mercury removal
		Granulation of matt, slag and
		produced metal
		Cooling water

Level 1	Level 2	Level 3
Service	Residue	Techniques for residues from
Technology	management	smelting process
		Techniques for residues from
		abatement systems
		Techniques for residues from
		liquid effluent
		Techniques for residues from
		hydrometallurgical processes
		Techniques for other residues
		from production of non-ferrous
		metals

Level 1	Level 2	Level 3
Alternative	Pre-treatment,	Thawing
Energy	preparation and	Drying
	transfer of raw	Blending
	materials	Briquetting, pelletising and other
		agglomeration methods
		Sintering and calcination
		Fuming
		De-coating and de-oiling
		Leaching and washing procedures
		Separation techniques
		Transfer and charging systems
	Primary copper	Roasting
	production	Smelting
	(pyrometallurgical	Converting
	route)	Refining
		Electrorefining
		Treatment of copper-rich slags
	Primary copper	Leaching
	production	Solvent extraction
	(hydrometallurgical	Stripping
	route)	Electrowinning
	Secondary copper	Secondary copper smelting stage
	production	Converting
		Fire-refining and anode casting
		Electrolytic refining
		Melting, casting of shapes, wire-
		rod
	Wire rod production	Southwire process
		Contirod process
		Properzi and Secor processes
		Upcast process
		Dip-forming process

Level 1	Level 2	Level 3
Alternative	Production of semi-	Melting
Energy	finished products of	Casting
	copper and copper	Hot and cold working (extrusion
	alloys	and drawing/rolling)
	Production of copper	Furnace melting
	and copper alloy	Fixed mould casting
	ingots	Master alloys
	Pickling operations	Acid treatment
		Non-acid pickling
		Drying and packaging
	Water and waste	Dry abatement techniques
	management	Wet air cleaning techniques
		Neutralisation and/or
		sedimentation
		Weak acid treatment
		Mercury removal
		Granulation of matt, slag and
		produced metal
		Cooling water
	Residue	Techniques for residues from
	management	smelting process
		Techniques for residues from
		abatement systems
		Techniques for residues from
		liquid effluent
		Techniques for residues from
		hydrometallurgical processes
		Techniques for other residues
		from production of non-ferrous metals