Sector: Foundries

Name or code of company: Company 2

Functional unit: 1 ton of pig iron raw casting – Torque Arm

List of main hot spots			
Relevant Impact Categories	**Contribution to overall normalised and weight impact**	**Relevant Processes**	**Contribution to overall characterized impact**
Climate change, fossil	9%	Pig Iron (Raw Material life cycle phase)	62%
		Consumables, Moulding (Production life cycle phase)	9%
		Energy, Other	14%
Particulate Matter	16%	Pig Iron (Raw Material life cycle phase)	65%
		Iron Scraps (Raw Material life cycle phase)	6%
		Consumables, Moulding (Production life cycle phase)	12%
Photochemical Ozone Formation	9%	Pig Iron (Raw Material life cycle phase)	69%
		Consumables, Moulding (Production life cycle phase)	8%
		Energy, Other	8%
Acidification	9%	Pig Iron (Raw Material life cycle phase)	56%
		Energy, Moulding (Production life cycle phase)	5%
		Consumables, Moulding (Production life cycle phase)	13%
		Energy, Other	13%
Freshwater Eutrophication	15%	Pig Iron (Raw Material life cycle phase)	51%
		Additional Alloying Elements (Raw Material life cycle phase)	13%
		Consumables, Moulding (Production life cycle phase)	12%
		Energy, Other	11%
Mineral, fossil & renewable resource depletion	24%	Pig Iron (Raw Material life cycle phase)	28%
		Additional Alloying Elements (Raw Material life cycle phase)	11%
		Consumables, Moulding (Production life cycle phase)	42%

Functional unit: 1 ton of pig iron raw casting – Mozzo

List of main hot spots			
Relevant Impact Categories	**Contribution to overall normalised and weight impact**	**Relevant Processes**	**Contribution to overall characterized impact**
Climate change, fossil	9%	Pig Iron (Raw Material life cycle phase)	55%
		Consumables, Moulding (Production life cycle phase)	8%
		Energy, Other	20%
Particulate Matter	16%	Pig Iron (Raw Material life cycle phase)	55%
		Iron Scraps (Raw Material life cycle phase)	6%
		Additional Alloying Elements (Raw Material life cycle phase)	14%
		Energy, Other	7%
Photochemical Ozone Formation	9%	Pig Iron (Raw Material life cycle phase)	61%
		Additional Alloying Elements (Raw Material life cycle phase)	11%
		Energy, Other	11%
Acidification	9%	Pig Iron (Raw Material life cycle phase)	45%
		Additional Alloying Elements (Raw Material life cycle phase)	18%
		Consumables, Moulding (Production life cycle phase)	9%
		Energy, Other	16%
Freshwater Eutrophication	15%	Pig Iron (Raw Material life cycle phase)	31%
		Additional Alloying Elements (Raw Material life cycle phase)	44%
		Energy, Other	11%
Mineral, fossil & renewable resource depletion	24%	Pig Iron (Raw Material life cycle phase)	23%
		Iron Scraps (Raw Material life cycle phase)	8%
		Additional Alloying Elements (Raw Material life cycle phase)	52%