Sector: Foundries

Name or code of company: Company 3

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	10%	Pig Iron (Raw Material life cycle phase)	75%
		Energy, Furnace (Production life cycle phase)	11%
Particulate Matter	18%	Pig Iron (Raw Material life cycle phase)	78%
		Energy, Furnace (Production life cycle phase)	6%
Photochemical Ozone Formation	13%	Pig Iron (Raw Material life cycle phase)	85%
Acidification	11%	Pig Iron (Raw Material life cycle phase)	73%
		Energy, Furnace (Production life cycle phase)	12%
Terrestrial Eutrophication	7%	Pig Iron (Raw Material life cycle phase)	81%
Freshwater Eutrophication	15%	Pig Iron (Raw Material life cycle phase)	68%
		Iron Energy, Furnace (Production life cycle phase)	13%
Mineral, fossil & renewable resource depletion	11%	Pig Iron (Raw Material life cycle phase)	35%
		Energy, Furnace (Production life cycle phase)	17%
		Consumables, Moulding (Production life cycle phase)	29%

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

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)	57%
		Additional Alloying Elements (Raw Material life cycle phase)	11%
		Energy, Furnace (Production life cycle phase)	10%
		Consumables, Moulding (Production life cycle phase)	11%
Particulate Matter	18%	Pig Iron (Raw Material life cycle phase)	50%
		Additional Alloying Elements (Raw Material life cycle phase)	24%
		Consumables, Moulding (Production life cycle phase	14%
Photochemical Ozone Formation	11%	Pig Iron (Raw Material life cycle phase)	64%
		Additional Alloying Elements (Raw Material life cycle phase)	17%
Acidification	9%	Pig Iron (Raw Material life cycle phase)	54%
		Additional Alloying Elements (Raw Material life cycle phase)	11%
		Energy, Furnace (Production life cycle phase)	11%
		Consumables, Moulding (Production life cycle phase)	14%
Freshwater Eutrophication	16%	Pig Iron (Raw Material life cycle phase)	41%
		Additional Alloying Elements (Raw Material life cycle phase)	28%
		Consumables, Moulding (Production life cycle phase)	13%
Mineral, fossil & renewable resource depletion	18%	Pig Iron (Raw Material life cycle phase)	14%
		Energy, Furnace (Production life cycle phase)	8%
		Consumables, Moulding (Production life cycle phase)	64%