

Tier 1 Production of P1 - Processed Materials		
Planet Types	P1 - Processed Material	P0 - Raw Material
B G I O S T	Water	← Aqueous Liquids
T	Industrial Fibers	← Autotrophs
B G L P S	Reactive Metals	← Base Metals
B O T	Biofuels	← Carbon Compounds
O T	Proteins	← Complex Organisms
L	Silicon	← Felsic Magma
I L P	Toxic Metals	← Heavy Metals
G S	Electrolytes	← Ionic Solutions
B I O T	Bacteria	← Micro Organisms
G I S	Oxygen	← Noble Gas
B P	Precious Metals	← Noble Metals
L P	Chiral Structures	← Non-CS Crystals
I O	Biomass	← Planktic Colonies
G	Oxidizing Compound	← Reactive Gas
L P S	Plasmoids	← Suspended Plasma

Barren
Gas
Ice
Lava
Oceanic
Plasma
Storm
Temperate

Tier 2 Production of P2 - Refined Commodities		
P2 - Refined Commodities	P1 - Processed Materials	P0 - Raw Materials
Biocells	Biofuels	Carbon Compounds
	Precious Metals	Noble Metals
Construction Blocks	Reactive Metals	Base Metals
	Toxic Metals	Heavy Metals
Consumer Electronics	Toxic Metals	Heavy Metals
	Chiral Structures	Non-CS Crystals
Coolant	Electrolytes	Ionic Solutions
	Water	Aqueous Liquids
Enriched Uranium	Precious Metals	Noble Metals
	Toxic Metals	Heavy Metals
Fertilizer	Bacteria	Micro Organisms
	Proteins	Complex Organisms
Gen. Enhanced Livestock	Proteins	Complex Organisms
	Biomass	Planktic Colonies
Livestock	Proteins	Complex Organisms
	Biofuels	Carbon Compounds
Mechanical Parts	Reactive Metals	Base Metals
	Precious Metals	Noble Metals
Microfiber Shielding	Industrial Fibers	Autotrophs
	Silicon	Felsic Magma

Miniature Electronics	Chiral Structures	Non-CS Crystals
	Silicon	Felsic Magma
Nanites	Bacteria	Micro Organisms
	Reactive Metals	Base Metals
Oxides	Oxidizing Compound	Reactive Gas
	Oxygen	Noble Gas
Polyaramids	Oxidizing Compound	Reactive Gas
Polytextiles	Industrial Fibers	Autotrophs
	Biofuels	Carbon Compounds
Rocket Fuel	Industrial Fibers	Autotrophs
	Plasmoids	Suspended Plasma
Silicate Glass	Electrolytes	Ionic Solutions
	Oxidizing Compound	Reactive Gas
Super Conductors	Silicon	Felsic Magma
	Plasmoids	Suspended Plasma
Supertensile Plastics	Water	Aqueous Liquids
	Oxygen	Noble Gas
Synthetic Oil	Biomass	Planktic Colonies
	Electrolytes	Ionic Solutions
Test Cultures	Oxygen	Noble Gas
	Bacteria	Micro Organisms
Transmitter	Water	Aqueous Liquids
	Plasmoids	Suspended Plasma
Viral Agent	Chiral Structures	Non-CS Crystals
	Bacteria	Micro Organisms
Water-Cooled CPU	Biomass	Planktic Colonies
	Reactive Metals	Base Metals
	Water	Aqueous Liquids

Tier 3 Production of P3 - Specialized Commodities

P3 - Specialized Commodities	P2 - Refined Commodities	P1 - Processed Materials	P0 - Raw Materials
Biotech Research Reports	Nanites	Bacteria	Micro Organisms
		Reactive Metals	Base Metals
	Livestock	Proteins	Complex Organisms
		Biofuels	Carbon Compounds
	Construction Blocks	Reactive Metals	Base Metals
		Toxic Metals	Heavy Metals
Camera Drones	Silicate Glass	Oxidizing Compound	Reactive Gas
		Silicon	Felsic Magma
	Rocket Fuel	Plasmoids	Suspended Plasma
		Electrolytes	Ionic Solutions
Condensates			
	Oxides	Oxidizing Compound	Reactive Gas
		Oxygen	Noble Gas
	Coolant	Electrolytes	Ionic Solutions
		Water	Aqueous Liquids

Cryoprotectant Solution	Test Cultures	Bacteria	Micro Organisms
		Water	Aqueous Liquids
	Synthetic Oil	Electrolytes	Ionic Solutions
		Oxygen	Noble Gas
	Fertilizer	Bacteria	Micro Organisms
		Proteins	Complex Organisms

Data Chips	Supertensile Plastics	Oxygen	Noble Gas
		Biomass	Planktic Colonies
	Microfiber Shielding	Industrial Fibers	Autotrophs
		Silicon	Felsic Magma

Gel-Matrix Biopaste	Oxides	Oxidizing Compound	Reactive Gas
		Oxygen	Noble Gas
	Biocells	Biofuels	Carbon Compounds
		Precious Metals	Noble Metals
	Super Conductors	Plasmoids	Suspended Plasma
		Water	Aqueous Liquids

Guidance Systems	Water-Cooled CPU	Reactive Metals	Base Metals
		Water	Aqueous Liquids
	Transmitter	Plasmoids	Suspended Plasma
		Chiral Structures	Non-CS Crystals

Hazmat Detection Systems	Polytextiles	Biofuels	Carbon Compounds
		Industrial Fibers	Autotrophs
	Viral Agent	Bacteria	Micro Organisms
		Biomass	Planktic Colonies
	Transmitter	Plasmoids	Suspended Plasma
		Chiral Structures	Non-CS Crystals

Hemetic Membranes	Polyaramids	Oxidizing Compound	Reactive Gas
		Industrial Fibers	Autotrophs
	Gen. Enhanced Livestock	Proteins	Complex Organisms
		Biomass	Planktic Colonies

High-Tech Transmitters	Polyaramids	Oxidizing Compound	Reactive Gas
		Industrial Fibers	Autotrophs
	Transmitter	Plasmoids	Suspended Plasma
		Chiral Structures	Non-CS Crystals

Industrial Explosives	Fertilizer	Bacteria	Micro Organisms
		Proteins	Complex Organisms
	Polytextiles	Biofuels	Carbon Compounds
		Industrial Fibers	Autotrophs

Neocoms	Biocells	Biofuels	Carbon Compounds
		Precious Metals	Noble Metals
	Silicate Glass	Oxidizing Compound	Reactive Gas
		Silicon	Felsic Magma
Nuclear Reactors	Microfiber Shielding	Industrial Fibers	Autotrophs
		Silicon	Felsic Magma
	Enriched Uranium	Precious Metals	Noble Metals
		Toxic Metals	Heavy Metals
Planetary Vehicles	Supertensile Plastics	Oxygen	Noble Gas
		Biomass	Planktic Colonies
	Mechanical Parts	Reactive Metals	Base Metals
		Precious Metals	Noble Metals
	Miniature Electronics	Chiral Structures	Non-CS Crystals
	Silicon	Felsic Magma	

Robotics	Mechanical Parts	Reactive Metals	Base Metals
		Precious Metals	Noble Metals
	Consumer Electronics	Toxic Metals	Heavy Metals
		Chiral Structures	Non-CS Crystals
Smartfab Units	Construction Blocks	Reactive Metals	Base Metals
		Toxic Metals	Heavy Metals
	Miniature Electronics	Chiral Structures	Non-CS Crystals
		Silicon	Felsic Magma
Supercomputers	Water-Cooled CPU	Reactive Metals	Base Metals
		Water	Aqueous Liquids
	Coolant	Electrolytes	Ionic Solutions
		Water	Aqueous Liquids
	Consumer Electronics	Toxic Metals	Heavy Metals
	Chiral Structures	Non-CS Crystals	
Synthetic Synapses	Supertensile Plastics	Oxygen	Noble Gas
		Biomass	Planktic Colonies
	Test Cultures	Bacteria	Micro Organisms
		Water	Aqueous Liquids
Transcranial Microcontroller	Biocells	Biofuels	Carbon Compounds
		Precious Metals	Noble Metals
	Nanites	Bacteria	Micro Organisms
		Reactive Metals	Base Metals

Ukomi Super Conductors	Synthetic Oil	Electrolytes	Ionic Solutions
		Oxygen	Noble Gas
	Super Conductors	Plasmoids	Suspended Plasma
		Water	Aqueous Liquids
Vaccines	Livestock	Proteins	Complex Organisms
		Biofuels	Carbon Compounds
	Viral Agent	Bacteria	Micro Organisms
		Biomass	Planktic Colonies

Tier 4 Production of P4 - Advanced Commodities

P4 - Advanced Commodities	P3 - Specialized Commodities			P2 - Refined Commodities		P1 - Processed Materials		P0 - Raw Materials			
Broadcast Node	Neocoms			Biocells		Biofuels		Carbon Compounds			
						Precious Metals		Noble Metals			
				Silicate Glass		Oxidizing Compound		Reactive Gas			
						Silicon		Felsic Magma			
	Data Chips			Supertensile Plastics		Oxygen		Noble Gas			
						Biomass		Planktic Colonies			
				Microfiber Shielding		Industrial Fibers		Autotrophs			
						Silicon		Felsic Magma			
	High-Tech Transmitters			Polyaramids		Oxidizing Compound		Reactive Gas			
						Industrial Fibers		Autotrophs			
				Transmitter		Plasmoids		Suspended Plasma			
						Chiral Structures		Non-CS Crystals			
	1u P4 <=	6u P3 =	48000 R	3u P3 <=	10u P2 =	24000 R	5u P2 <=	40u P1 =	12000 R	20u P1 <=	6000 units R (P0)

Integrity Response Drones	Gel-Matrix Biopaste			Oxides		Oxidizing Compound		Reactive Gas			
						Oxygen		Noble Gas			
				Biocells		Biofuels		Carbon Compounds			
						Precious Metals		Noble Metals			
				Super Conductors		Plasmoids		Suspended Plasma			
						Water		Aqueous Liquids			
	Hazmat Detection Systems			Polytextiles		Biofuels		Carbon Compounds			
						Industrial Fibers		Autotrophs			
				Viral Agent		Bacteria		Micro Organisms			
						Biomass		Planktic Colonies			
	Planetary Vehicles			Transmitter		Plasmoids		Suspended Plasma			
						Chiral Structures		Non-CS Crystals			
				Supertensile Plastics		Oxygen		Noble Gas			
						Biomass		Planktic Colonies			
				Mechanical Parts		Reactive Metals		Base Metals			
						Precious Metals		Noble Metals			
Miniature Electronics				Chiral Structures		Non-CS Crystals					
				Silicon		Felsic Magma					
	1u P4 <=	6u P3 =	48000 R	3u P3 <=	10u P2 =	24000 R	5u P2 <=	40u P1 =	12000 R	20u P1 <=	6000 units R (P0)

Self-Harmonizing Power Core	Camera Drones				Silicate Glass			Oxidizing Compound			Reactive Gas		
								Silicon			Felsic Magma		
					Rocket Fuel			Plasmoids			Suspended Plasma		
							Electrolytes			Ionic Solutions			
	Nuclear Reactors				Microfiber Shielding			Industrial Fibers			Autotrophs		
								Silicon			Felsic Magma		
					Enriched Uranium			Precious Metals			Noble Metals		
								Toxic Metals			Heavy Metals		
	Hermetic Membranes				Polyaramids			Oxidizing Compound			Reactive Gas		
								Industrial Fibers			Autotrophs		
					Gen. Enhanced Livestock			Proteins			Complex Organisms		
								Biomass			Planktic Colonies		
		1u P4 <=	6u P3 =	48000 R	3u P3 <=	10u P2 =	24000 R	5u P2 <=	40u P1 =	12000 R	20u P1 <=	6000 units R (P0)	

Sterile Conduits								Water			Aqueous Liquids		
	Smartfab Units				Construction Blocks			Reactive Metals			Base Metals		
								Toxic Metals			Heavy Metals		
					Miniature Electronics			Chiral Structures			Non-CS Crystals		
								Silicon			Felsic Magma		
	Vaccines				Livestock			Proteins			Complex Organisms		
								Biofuels			Carbon Compounds		
					Viral Agent			Bacteria			Micro Organisms		
								Biomass			Planktic Colonies		
			1u P4 <=	6u P3 =	48000 R	3u P3 <=	10u P2 =	24000 R	5u P2 <=	40u P1 =	12000 R	20u P1 <=	6000 units R (P0)

Wetware Mainframe	Supercomputers				Water-Cooled CPU			Reactive Metals			Base Metals		
								Water			Aqueous Liquids		
					Coolant			Electrolytes			Ionic Solutions		
							Water			Aqueous Liquids			
	Biotech Research Reports				Consumer Electronics			Toxic Metals			Heavy Metals		
								Chiral Structures			Non-CS Crystals		
					Nanites			Bacteria			Micro Organisms		
								Reactive Metals			Base Metals		
	Cryoprotectant Solution				Livestock			Proteins			Complex Organisms		
								Biofuels			Carbon Compounds		
					Construction Blocks			Reactive Metals			Base Metals		
								Toxic Metals			Heavy Metals		
Cryoprotectant Solution				Test Cultures			Bacteria			Micro Organisms			
							Water			Aqueous Liquids			
				Synthetic Oil			Electrolytes			Ionic Solutions			
							Oxygen			Noble Gas			
Cryoprotectant Solution				Fertilizer			Bacteria			Micro Organisms			
							Proteins			Complex Organisms			
		1u P4 <=	6u P3 =	48000 R	3u P3 <=	10u P2 =	24000 R	5u P2 <=	40u P1 =	12000 R	20u P1 <=	6000 units R (P0)	

POS Fuels:

P3			P2			P1			R (P0)			Planets	(min)
						Oxygen			Noble Gas			GIS	G
			Coolant			Electrolytes			Ionic Solutions			GS	G
						Water			Aqueous Liquids			BGIOST	G
			Enriched Uranium			Precious Metals			Noble Metals			BP	P
						Toxic Metals			Heavy Metals			ILP	P
Robotics			Mechanical Parts			Reactive Metals			Base Metals			BGLPS	GP
						Precious Metals			Noble Metals			BP	P
			Consumer Electronics			Toxic Metals			Heavy Metals			ILP	P
						Chiral Structures			Non-CS Crystals			LP	P
		3u P3 <=	10u P2		5u P2 <=	40u P1		20u P1 <=	6000 units P0				
		60min			60min			30min	15min				