

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	1 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. METALS AND ALLOYS				
1.	Chemical Analysis of Mild Steel, Low Alloy Steel, High Alloy Steel & Tool Steel	Carbon	IS 228 (Part 1): 1987 (RA 2007) IS 12308 (Part 11): 1988	0.01 % to 0.050 % 0.06 % to 0.50 % 0.5 % to 1.00 % 1.01 % to 2.5 %
		Sulphur	ASTM E350-12 IS 12308 (Part 2): 1988	0.0010 % to 0.050 % 0.051 % to 0.20 % 0.21 % to 0.50 %
		Phosphorous	IS 228 (Part 3): 1987 (RA 2002) ASTM E350-12 ASTM E352-13 ASTM E353-93 (RA 2006) IS 12308 (Part 5): 1988	0.0010 % to 0.050 % 0.051 % to 0.50 %
		Silicon	IS: 228 (Part 8): 1989 (RA 2004) IS 12308 (Part 2): 1988 ASTM E353-93 (RA 2006) IS 12308 (Part 6): 1988	Upto 0.10 % 0.10 % to 0.3 % 0.30 % to 1.0 % 1.01 % to 5.00 %
		Manganese	IS 228 (Part 2): 1987 (RA 2002) ASTM E350-12 ASTM E353-93 (RA 2006) ASTM E352-13 LDM 4(issue date:22 nd July 2013, Issue No.: 04)	0.010 % to 1.00 % 1.01 % to 05.00 % 5.01 % to 18.0 %
		Chromium	IS 228 (Part 6) 1987 (RA 2002) ASTM E350-12 ASTM E352-13 ASTM E353-93 (RA 2006) IS 12308 (Part 8):1988	Up to 0.50 % 0. 5 % to 5.00 % 5.01 % to 14.00 % 14.013 % to 5.00 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	2 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cobalt		ASTM E350-12 ASTM E352-13 ASTM E353-93 (RA 2006)	0.01 % to 1.00 % 1.01 % to 5.00 % 5.01 % to 15 %
	Nickel		ASTM E350-12 ASTM E352-13 ASTM E353-93 (RA 2006) IS 228 (Part 5): 1987 (RA 2002) LDM-1(issue date: 4 th Jan 2005 Issue No: 01) IS 12308 (Part 7): 1988	Upto 0.50 % 0.5 % to 4.0 % 4.0 % to 15.0 % 15.01 % to 40.0 %
	Molybdenum		ASTM E350-12 ASTM E352-13 ASTM E353-93 (RA 2006) LDM-3 (issue date: 4 th Jan 2005 Issue No: 03) IS 12308 (Part 9): 1988	Upto 0.20 % 0.2 % to 0.60 % 0.6 % to 3.0 % 3.0 % to 7.0 % 7 % to 10.0 %
	Copper		ASTM E350-12 ASTM E352-13 ASTM E353-93 (RA 2006)	Up to 0.2 % 0.2 % to 3.00 % 3.01 % to 5.00 %
	Titanium		ASTM E350-12 ASTM E352-13 ASTM E353-93 (RA 2006)	0.05 % to 0.50% 0.5% to 2.00%
	Vanadium		ASTM E30-88 (RA 2000) ASTM E350-12 ASTM E352-13 ASTM E353-93 (RA 2006)	Up to 0.50 % 0.50 % to 2.00 % 2.01 % to 5.50 %
	Tungsten		ASTM E30-88 (RA 2000) ASTM E350-12 ASTM E352-13 ASTM E353-93 (RA 2006)	0.10 % to 1.00 % 1.01 % to 5.00 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	3 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Chemical Analysis of Nickel base alloys	Niobium	LDM 5 (issue date: 22 nd Jul 2013, issue No.: 05)	0.02 % to 1 %
		Iron	LDM 6(issue date:22 nd Jul 2013, issue No.:06)	Base Metal 50 % to 90.00 %
		Carbon	ASTM 1473-09 IS-6226 (Part 1): 1994	0.01 % to 0.050% 0.06 % to 0.50% 0.5 % to 1.10%
		Sulphur	ASTM 1473-09	0.0010 % to 0.10 %
		Phosphorous	ASTM 1473-09	0.0010 % to 0.050 % 0.05 % to 0.08 %
		Silicon	ASTM 1473-09	Upto 0.10 % 0.10 % to 0.3 % to 0.3 % to 1.0 % 1.01 % to 5.00 %
		Manganese	LDM 4 Issue date: 22 nd Jul 2013, issue No.: 04)	0.010 % to 1.00 % 1.01 % to 3.00 %
		Chromium	ASTM 1473-09	Up to 0.50 % 0.5 % to 5.00 % 5.01 % to 14.00 % 14.01 % to 33.00 %
		Cobalt	ASTM 1473-09	0.01 % to 1.00 % 1.01 % to 5.00 % 5.01 % to 30 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	4 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Molybdenum	ASTM 1473-09 LDM-3 (issue date: 4 th Jan 2005 Issue No: 03	1.0 % to 25.0 %
		Copper	ASTM 1473-09	Upto 0.2 % 0.2 % to 3.00 % 3.01 % to 33.00 %
		Titanium	ASTM 1473-09	0.05 % to 0.50 % 0.5 % to 1.00 % 1.0 % to 4.5 %
		Vanadium	ASTM 1473-09	Up to 0.50 % 0.50 % to 2.00 % 2.01 % to 3.25 %
		Tungsten	ASTM 1473-09	0.10 % to 1.00 % 1.01 % to 5.00 %
		Neobium	ASTM 1473-09 LDM 5(issue date: 22 nd Jul 2013, Issue No.:05)	0.02% to 4.50%
		Iron	LDM 6 (issue date: 22 nd Jul 2013, issue No.: 06)	0.1 % to 15 %
		Nickel	ASTM 1473-09,LDM-1(issue date: 4 th Jan 2005 Issue No: 01)	Base Metal 50 % to 99.99 %
3.	Chemical Analysis of Cobalt base Alloys	Carbon	ASTM 1473-09 IS 6226 (Part 1): 1994	0.25 % to 1.10 %
		Sulphur	ASTM 1473-09	0.0010 % to 0.08 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	5 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Silicon	ASTM 1473-09	0.01 % to 5.0 %
		Manganese	ASTM 1473-09	1 % max.
		Chromium	ASTM 1473-09	25.0 % to 30.0 %
		Cobalt	ASTM 1473-09	Base Metal (Balance)
		Molybdenum.	ASTM 1473-09,LDM-3(issue date:4 th Jan 2005 Issue No: 03)	3 % max
		Tungsten	ASTM 1473-09	2.0 % to 8.0 %
		Iron	LDM 6 (issue date: 22 nd Jul 2013, issue No.: 06)	3.0 % to 7.0 %
		Nickel	ASTM 1473-09 LDM-1 Issue date: 4 th Jan 2005 Issue No: 01)	0.10 % to 35.0 %
4.	Aluminium and Aluminium Alloys	Silicon	IS 504 (Part 1): 2002 ASTM E34-11	0.05 % to 20.00 %
		Manganese	IS 504: 2089 ASTM E34-11	0.01 % to 2.0 %
		Iron	IS 504 (Part 2): 2002, ASTM E34-11, LDM 7 (issue date: 22 nd Jul 2013, issue No.: 07)	0.01 % to 5 %
		Zinc	IS 504 (Part 4): 2002 ASTM E34-11	0.20 % to 12 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	6 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Copper & Copper Alloys	Nickel	IS 504 (Part 7): 2002, ASTM E34-11 LDM-1 (issue date: 4 th Jan 2005 Issue No: 01)	0.05 % to 4.00 %
		Copper	IS 504 (Part 3): 2002 ASTM E34-11 LDM 2 (issue date: 4 th Jan 2005 Issue No: 02)	0.01 % to 20.00 %
		Tin	IS 504 (Part 9): 2002 ASTM E34-11	0.05 % to 1.00 %
		Magnesium	IS 504 (Part 6): 2002	0.10 % to 12.00 %
		Manganese	ASTM E478-2008 ASTM E76-2000	0.01 % to 15 %
		Iron	IS 440: 1964 (RA 2006) IS 3685: 1966 (RA 2006) LDM 7(Issue date: 22 nd Jul 2013, Issue No.:07)	0.10 % to 6 %
		Arsenic	ASTM E62-1989 (RA 2004)	0.02 % to 1 %
		Zinc	ASTM E478-08 LDM 8 (Issue date: 22 nd Jul 2013, issue No: 08)	0.20 % to 50 %
		Nickel	ASTM E478-08, IS 3685: 1966 (RA 2006) LDM 1 (Issue date: 4 th Jan 2005 Issue No: 01)	0.05 % to 10.00 % 10 % to 50 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	7 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Aluminium	LDM 9 (Issue date: 22 nd Jul 2013, Issue No: 09)	0.1 % to 12.00 %
		Tin	ASTM E 478-08 ASTM E62-1989 (RA 2004), LDM 10 (Issue date: 22 nd Jul 2013, Issue No: 10)	0.01 % to 20.00 %
		Lead	ASTM E 478-08 LDM 11 (Issue date: 22 nd Jul 2013, Issue No: 11)	0.05 % to 20.00 %
		Phosphorous	IS 440: 1964 (RA 2006), ASTM E62-1989 (RA 2004)	0.10 % to 6.00 %
		Antimony	IS 318 (Part 7): 2006	1 % Max.
		Magnesium	ASTM E478-08	0.01 % to 3.0 %
		Silicon	ASTM E 478-08 IS 3685: 1966 (RA 2006)	0.05 % to 8 %
		Copper-pure	IS 440 1964: (RA 2006), ASTM E478-08 , IS 3685: 1966 (RA 2006) LDM-2 Issue date: 4 th Jan 2005 Issue No: 02)	Upto 99.9% Base Metal
6.	Zinc base Alloys	Copper	LDM-2, (Issue date:4 th Jan 2005 IssueNo:02)	0.1 % to 10 %
		Manganese	LDM 4 (Issue date: 22 nd Jul 2013, Issue No. 04)	0.01 % to 0.5 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	8 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Iron		IS 406: 1964 (RA 2000) LDM7 (issue date: 22 nd Jul 2013, issue No.:07)	0.10 % to 1.3 %
	Arsenic		IS 406: 1964 (RA 2000)	0.02 % to 1 %
	Nickel		LDM 1 (Issue date: 4 th Jan 2005 Issue No: 01)	0.05 % to 1.00 %
	Aluminium		LDM 9 (Issue date: 22 nd Jul 2013, Issue No: 09)	0.1 % to 30.00 %
	Tin		LDM 10 (Issue date: 22 nd Jul 2013, Issue No:10)	0.01 % to 0.5 %
	Lead		IS 406: 1964: (RA 2000), LDM 11 (Issue date:22 nd Jul 2013, Issue No: 11)	0.01% to 0.5 %
	Antimony		IS 406: 1964 (RA 2000)	1 % Max.
	Magnesium		IS 406: 1964 (RA 2000)	0.01 % to 3.0 %
	Zinc		LDM 8 (issue date: 22 nd Jul 2013, issue No: 08)	Base metal 40 % to 99.90 %
	Cadmium		IS-406-1964 (RA 2000)	0.05 % to 15 %
7.	White Metal	Copper	IS-1409-1959 (RA 2000) LDM-2 (issue date: 4 th Jan 2005 IssueNo: 02)	0.1 % to 10 %
		Arsenic	IS 1409: 1959 (RA 2000)	0.02 % to 0.25 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	9 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Antimony	IS 1409: 1959 (RA 2000)	0.1 % to 16 %
		Tin	IS 1409: 1959 (RA 2000) LDM 10 (Issue date: 22 nd Jul 2013, Issue No: 10)	0.01 % to 20.00 % 20 % to 99.9 %
		Lead	IS 1409: 1959 (RA 2000) LDM 11(Issue date: 22 nd Jul 2013, Issue No.:11)	0.05 % to 20.00 % 20 % to 99.9 %
8.	Ferro Manganese High/Medium Carbon	Manganese	ASTM -E31-85 (RA 2002) ASTM E1476-95 ASTM -E1621-05	45.00 % to 80.00 %
		Phosphorous	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.05 % to 1.0 %
		Sulphur	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.03 % to 0.5 %
		Silicon	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 5.0 %
9.	Ferro Manganese Low Carbon	Manganese	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM -E1621-05	45.00 % to 80.00 %
		Phosphorous	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.05 % to 1.0 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	10 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
10.	Ferro Molybdenum	Silicon	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 25.0 %
		Molybdenum	ASTM E31-85 (RA 2002) ASTM E1476-95 & ASTM E1621-05	45.00 % to 70.00 %
		Silicon	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.1 % to 5.0 %
11.	Ferro Silicon	Silicon	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	35.00 % to 80.00 %
		Aluminum	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 10 %
		Calcium	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 10.0 %
		Phosphorous	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.05 % to 0.20 %
		Chromium	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E363-09	40.00 % to 70.00 %
12.	Ferro Chrome High Carbon			

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	11 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Silicon	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E363-09	0.10 % to 10 %
		Manganese	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E363-09	0.10 % to 5.0 %
		Phosphorous	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E363-09	0.02 % to 0.1 %
		Sulphur	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E363-09	0.02 % to 0.1 %
13.	Ferro Niobium	Niobium	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E 367-2009	40.00 % to 80.00 %
		Silicon	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E 367-2009	0.10 % to 5 %
		Aluminum	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E 367-2009	0.10 % to 3.0 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	12 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Titanium	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E 367-2009	0.10 % to 5 %
14.	Ferro Tungsten	Tungsten	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	50.00 % to 80.00 %
		Silicon	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 5.0 %
		Manganese	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 3.0 %
		Copper	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 0.2 %
		Molybdenum	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 3.0 %
15.	Ferro Titanium	Titanium	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	30.00 % to 55.00 %
		Aluminium	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 15 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	13 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Calcium		ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 5.0 %
	Chromium		ASTM E31-85 (RA 2002) ASTM E1476-95 & ASTM E1621-05	0.10 % to 5.0 %
	Copper		ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 1.0 %
	Manganese		ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 10 %
	Molybdenum		ASTM E31-85 (RA 2002) ASTM E1476-95 & ASTM E1621-05	0.10 % to 1.0 %
	Niobium		ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 3.0 %
	Nickel		ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.10 % to 1.0 %
	Phosphorous		ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.02 % to 0.10 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	14 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sulphur	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.02 % to 0.10 %
		Silicon	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05	0.1 0 % to 5.0 %
16.	Ferro Vanadium	Vanadium	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E365-90 (RA 2002)	30.00 % to 55.00 %
		Manganese	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E365-90 (RA 2002)	0.10 % to 5.0 %
		Phosphorous	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E365-90 (RA 2002)	0.02 % to 0.10 %
		Sulphur	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E365-90 (RA 2002)	0.02 % to 0.10 %
		Silicon	ASTM E31-2002 ASTM E365-2002 ASTM E1476 ASTM E1621	0.10 % to 5.0%

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	15 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Titanium	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E365-90 (RA 2002)	0.10 % to 1.0 %
		Copper	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E365-90 (RA 2002)	0.10 % to 1.0 %
		Nickel	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E365-90 (RA 2002)	0.10 % to 2.0 %
		Chromium	ASTM E31-85 (RA 2002) ASTM E1476-95 & ASTM E1621-05, E365-90 (RA 2002)	0.10 % to 10.0 %
		Molybdenum	ASTM E31-85 (RA 2002) ASTM E1476-95 ASTM E1621-05 ASTM E365-90 (RA 2002)	0.10 % to 1.0 %
17.	Chemical Analysis of Stainless Steel And High Alloy Steel	Aluminium	ASTM E1086-08	0.0015 % to 2 %
		Carbon		0.0040 % to 4.5 %
		Cobalt		0.0005 % to 5 %
		Cobalt-High		0.2 % to 20 %
		Chromium		0.0015 % to 10 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	16 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chromium-High	ASTM E1086-08	0.1 % to 35 %
		Copper-High		0.05 % to 10 %
		Copper-Low		0.0005 % to 0.7 %
		Magnesium		0.002 % to 0.4 %
		Manganese		0.0006 % to 6 %
		Manganese-High		0.02 % to 25 %
		Molybdenum		0.0006 % to 10 %
		Nitrogen-High		0.05 % to 1 %
		Neobium		0.002 % to 3 %
		Nickel		0.002 % to 10 %
		Nickel-High		1 % to 40 %
		Phosphorus		0.001 % to 1.5 %
		Sulphur		0.0006 % to 0.4 %
		Silicon		0.0015 % to 8 %
		Titanium		0.0003 % to 2 %
		Vanadium		0.0005 % to 6 %
		Tungsten		0.003 % to 25 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	17 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
18.	Carbon Steel Low Alloy Steel And Other Cast Alloyed Steel	Aluminium	ASTM E415-08	0.0015 % to 2 %
		Carbon		0.0040 % to 4.5 %
		Cobalt		0.0005 % to 5.0 %
		Chromium		0.0015 % to 5.0 %
		Copper-Low		0.0005 % to 0.7 %
		Magnesium		0.002 % to 0.4 %
		Manganese		0.0006 % to 5.0 %
		Molybdenum		0.0006 % to 5.0 %
		N-High		0.05 % to 1 %
		Neobium		0.002 % to 3 %
		Nickel		0.002 % to 10%
		Phosphorus		0.001 % to 1.5 %
		Sulphur		0.0006 % to 0.4 %
		Silicon		0.0015 % to 5.0 %
		Titanium		0.0003 % to 2 %
		Vanadium		0.0005 % to 5.0 %
		Tungsten		0.003 % to 5.0 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	18 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
19.	Nickel Base Alloys	Aluminium	LDM-12 (Issue date: 23 rd Dec2013, Issue No: 12)	0.002 % to 6 %
		Carbon		0.005 % to 3 %
		Cobalt		0.002 % to 1 %
		Cobalt-High		0.005 % to 30 %
		Chromium		0.0015 % to 3 %
		Chromium-High		0.1 % to 25 %
		Copper-High		0.2 % to 33 %
		Copper-Low		0.0005 % to 0.5%
		Iron		0.002 % to 5 %
		Iron-High		0.1 % to 50 %
		Magnesium		0.0005 % to 0.3 %
		Manganese		0.01 % to 3 %
		Manganese-High		0.01 % to 25 %
		Molybdenum		0.001 % to 6 %
		Molybdenum-High		1% to 33 %
		Neobium		0.02 % to 6 %
		Phosphorus		0.001% to 0.1 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	19 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sulphur	LDM-12 (Issue date: 23 rd Dec2013, Issue No: 12)	0.001 % to 0.4 %
		Silicon		0.03 % to 5 %
		Titanium		0.001 % to 5 %
		Vanadium		0.01 % to 5 %
		Tungsten		0.02 % to 20 %
20.	Aluminium base Alloys	Bismuth	ASTM E1251-11	0.0003 % to 0.1 %
		Cadmium		0.0002 % to 0.2 %
		Cobalt		0.0010 % to 0.5 %
		Chromium		0.0005 % to 3 %
		Copper-High		0.200 % to 15 %
		Copper-Low		0.0002 % to 0.5 %
		Iron		0.0005 % to 2 %
		Iron-High		0.1000 % to 10 %
		Magnesium		0.0002 % to 3 %
		Magnesium-High		0.0030 % to 15 %
		Manganese		0.0005 % to 1.8 %
		Manganese-High		1.0 % to 12 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	20 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nickel	ASTM E1251-11	0.0015 % to 5 %
		Phosphorus		0.0010 % to 0.1 %
		Lead		0.0005 % to 2 %
		Antimony		0.0008 % to 0.5 %
		Silicon		0.0003 % to 5 %
		Silicon-High		0.200 % to 25 %
		Tin-High		0.0005 % to 20 %
		Titanium		0.0002 % to 1 %
		Vanadium		0.0005 % to 0.5 %
		Zinc		0.010 % to 10 %
21.	Copper Base Alloy	Aluminium	LDM-13 (Issue date: 23 rd Dec2013, Issue No:13)	0.001 % to 8 %
		Aluminium-High		0.0002 % to 20 %
		Arsenic		0.0010 % to 0.5 %
		Bismuth		0.0010 % to 0.3 %
		Cadmium		0.0005 % to 0.3 %
		Cobalt		0.0010 % to 2 %
		Chromium		0.0010 % to 3 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	21 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Iron		LDM-13 (Issue date: 23 rd Dec2013, Issue No:13)	0.002 % to 5 %
	Iron-High			0.200 % to 10 %
	Magnesium			0.0005 % to 3 %
	Manganese			0.0010 % to 2 %
	Manganese-High			0.002% to 12 %
	Neobium			0.0010 % to 0.1 %
	Nickel			0.0020 % to 7 %
	Nickel-High			2 % to 50.00 %
	Phosphorus			0.0010 % to 1 %
	Lead			0.0020 % to 20 %
	Sulphur			0.0005 % to 0.4 %
	Antimony			0.0025 % to 2%
	Silicon			0.0010 % to 8%
	Tin-High			0.500 % to 20 %
	Tin-Low			0.0010 % to 1 %
	Titanium			0.0020 % to 1 %
	Vanadium			-

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	22 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
22.	Zinc base Alloys	Zinc-High	LDM-13 (Issue date: 23 rd Dec2013, Issue No:13)	1 % to 50 %
		Zinc		0.0030 % to 10 %
		Aluminium	ASTM E634-12	0.0003 % to 8 %
		Aluminium-High		0.0120 % to 30 %
		Arsenic		0.0002 % to 0.5 %
		Cadmium		0.0002 % to 0.2 %
		Copper-High		0.100 % to 10 %
		Copper-Low		0.0003 % to 0.7 %
		Iron		0.0025 % to 1.3 %
		Magnesium		0.0003 % to 3 %
		Magnesium-High		0.0025 % to 3 %
		Manganese		0.0003 % to 0.5 %
		Nickel		0.010 % to 1 %
		Lead		0.0025 % to 0.5 %
		Antimony		0.0030 % to 0.5 %
		Silicon		0.0006 % to 0.5 %
		Tin-High		0.025 % to 0.5 %

Laboratory	Divine Metallurgical Services Private Limited, 14, Gopal Industrial Estate, Odhav, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.01.2015
Certificate Number	T-0435	Valid Until	15.11.2016
Last Amended on	-	Page	23 of 23

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
23.	Titanium Alloys	Aluminium	LDM-14 (Issue date: 23 rd Dec 2013 , Issue No: 14)	0.0020 % to 10.00 %
		Chromium		0.0050 % to 5.00 %
		Copper-Low		0.0030 % to 2.00 %
		Iron		0.005 % to 2.50 %
		Manganese		0.0050 % to 5.00 %
		Nickel		0.0020 % to 0.50%
		Silicon		0.0050 % to 2.00 %
		Vanadium		0.100 % to 10.00 %
		Zirconium		0.0020 % to 5.00 %
		Molybdenum		0.002 % to 6.0 %
		Tin		0.002 % to 3.0 %

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